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Schleswig-Holsteinischen Landtages
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Schleswig-Holsteinischer Landtag
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Sehr geehrter Herr Vorsitzender,

vielen Dank für die Gelegenheit, dem Europaausschuss des Schleswig-Holsteinischen Landtags zum aktuellen Sachstand der EU-Investitionsoffensive und der Einrichtung des Europäischen Fonds für Strategische Investitionen zu berichten.

Im Anhang übersende ich Ihnen wie vereinbart die vorläufigen Projektlisten mit den Vorschlägen für Investitionsprojekte der Bundesregierung und der EU-Kommission.

Mit freundlichen Grüßen


Dr. Frank Nägele

Anlagen

Hinweis: Die vollständige Projektliste ("Annex 2 - Part 1") beschreibt die Projekte in 19 weiteren EU-Staaten und umfasst insgesamt 409 Seiten. Sie kann im Ausschussbüro, - Zi. 138 - eingesehen werden.

SPECIAL TASK FORCE (MEMBER STATES, COMMISSION, EIB) ON INVESTMENT IN THE EU

ANNEX 2 - Project lists from Member States and the Commission

PART 1

DISCLAIMER:

A mention of the EIB or the European Commission in any of the project lists provided by the Member States and/or the Commission does not necessarily imply there has been any previous contact with the EIB or the European Commission on the project in question, nor that it will become a project receiving financing from the EIB or the European Commission in the future. All projects submitted to the EIB for funding will be subject to normal due diligence in line with existing EIB procedures and guidelines and/or the European Union legislation should they be considered for finance. Co-financing by ESI Funds or other EU programmes of any project is subject to the respect of all applicable European Union and national rules.



GERMANY



Country : Germany
Project list

Sector	Subsector	Private/Public/PPP	Project name	Implementing agency	Description	Included in national investment plan (yes/no)	Status	Total investment cost (EUR bn)		Barriers/solutions
								Investment in 2015 – 2017	(EUR bn)	
Knowledge and the Digital Economy	Public R&D	public private	Leading Edge Cluster Competition	Federal level	The Federal Ministry of Education and Research launched the Leading-Edge Cluster competition in the summer of 2007 under the slogan "Germany's Leading Edge Clusters - more innovation, more growth, more employment". Up to five winners per round of the competition are funded by the Ministry for a period of five years in the implementation of their strategies. There will be a total of three rounds - with up to 200 million euros per round. Two rounds have already been successfully completed. The implementation envisages a matching level of financial participation on the part of businesses and private investors. www.spitzencluster.de	Yes	Start 2007 - funding foreseen until end of 2017	0.6	0.1	Total public funding 600 Mio. Euro; 2015-2017: 140 Mio. Euro
Knowledge and the Digital Economy	Public R&D	public private	Internationalization of Leading Edge Clusters, "Zukunftsprojekte" and comparable networks	Federal level	Building on existing funding programs this initiative aims to strengthen international ties of German innovation clusters.	Yes	About to start	0.1	0.0	Public funding total: 120 Mio. Euro; 2015-2017: 17 Mio. Euro
Knowledge and the Digital Economy	Public R&D	public private	Forschungscampus	Federal level	Public private partnership for innovation with the aim to foster cooperation between science and industry. Nine public-private partnerships have been awarded the title of Forschungscampus. www.forschungscampus-deutschland.de	Yes	Start 2012 - Funding of 2 Mio. Euro per year for each of the nine selected campuses for a duration of up to 15 years.	0.3	0.1	Public funding 2015-2017: 54 Mio. Euro
Knowledge and the Digital Economy	Public R&D	public private	Wachstumskerne (Innovative Regional Growth Cores)	Federal level	Innovative Regional Growth Cores: This programme is aimed at regional cooperations with either a platform technology at their disposal or the potential to develop one and which show important features that make them unique in their field of	Yes	on-going	0.5	0.2	solution for innovation in SME 's

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Knowledge and the Digital Economy	Public R&D	public private	Zwanzig20 – partnership for innovation (Twenty20 – Partnership for Innovation – The Programme)	Federal level	The program supplements the promotion programme of "Unternehmen Region" (Entrepreneurial Regions) targeted at the Eastern German Länder with a new approach geared to national, inter-, trans- and multi-disciplinary cooperations between the partners, and which is committed to openness and transparency.	Yes	started in 2013	0.5	0.5	interruptive innovation
Knowledge and the Digital Economy	Public R&D	public	Zentren für Innovationskompetenz (Centres for Innovation Competence)	Federal level	The programme "Centres for Innovation Competence" turns outstanding research approaches at universities and research institutions in the New German Länder into internationally renowned centres. Excellent and internationally competitive research as well as "innovation competence" or the ability to transfer research findings to the economy are decisive for these centres, which should also act as a magnet for young scientists.	Yes	announced	0.2	0.2	high-level research
Knowledge and the Digital Economy	Public R&D	public private	„Nationale Innovationsprogramm Wasserstoff- und Brennstoffzellentechnologie II" (NIP II)	Federal level	Extension of the National Innovation Program "Hydrogen and fuel cell technology II" between the federal government and industry beyond 2016 with the aim to speed up the marketability of the technology.	no	preparatory negotiations	3.0	1.0	financial barriers

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								(EUR bn)	Investment in 2015 – 2017 (EUR bn)	
Knowledge and the Digital Economy	Private R&D	private	ALPHAKAT	Private developer (Alphakat GmbH)	ALPHAKAT offer an alternative to the usual processes of pyrolysis, incineration, gasification and organic disposal: a modern limitation of the way oil was produced by the planet Earth: a catalytic process during which a toxic CO2 atmosphere was converted into the life-supporting high oxygen atmosphere of today. The current methods of combustion of fossil fuels such as oil, gas and waste are arduous with complex filters to remove harmful residues from exhaust gases. Thanks to a process learned from nature itself, it is now possible to dispose of fossil waste without emissions, toxic substances or toxic residues. It can be applied to the waste resulting from domestic waste, plastic such as bottles or packaging, organic waste such as fruit or plants, or the waste resulting from crude oil processing, e.g. bitumen.	no	planning and building of a pilot plant	5.0	5.0	Lack of long term finance and coordination and permitting problem.
Knowledge and the Digital Economy	ICT Infrastructure	private	Extending broadband coverage.	Federal level	privat investment required to extend broadband coverage			20.0		low profitability
Knowledge and the Digital Economy	ICT Infrastructure	private	Broadband NRW	private developers	extension of broadband for fixed networks in NRW for 100% households and covering a large area of industrial estates with 100 Mbit/s	yes	planning and starting in 2015	3.4	2.8	lack of long-term financing
Knowledge and the Digital Economy	ICT Infrastructure	public private	Rollout of smart digital networks in basis sectors in under-served areas along the Franco-German border	Federal level	With a partnership for the rollout of smart digital networks in basis sectors such as education, health, transport, energy and public administration we will push forward the rollout of broadband networks in under-served areas along the Franco-German border. Additionally, we stimulate demand for broadband access with a crossborder regional test area for eHealth, eLearning, eMobility, eGovernment, eProcurement etc.	No	planning process just started	0.5	0.2	Low population density in regions along the French-German border, High investment costs in infrastructure, but unnecessary redundancies, if there was no border, different technical Standards, Language barrier
Knowledge and the Digital Economy	ICT Infrastructure	Private	Maritime Daten-Highway Norddeutschland	dasNetz AG in cooperation with the federal state of Schleswig-Holstein	Mobile coastal broadband services for ships and mobile customers.	no	in development	0.0	0.0	Open questions concerning locations for infrastructure and necessary permissions. Total investment costs of 5 mio. Euro over 5 years.

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Knowledge and the Digital Economy	ICT Infrastructure	private	Digitisation of road transport	Federal level	Digitisation of road transport to improve traffic guidance.		Different elements of digitized vehicle traffic are already being tested. Federal highway already feature fiber cable to a large extent.	0.3			Lack of a common standard and investment need in digital infrastructure. Defining certain frequencies for traffic related data flows will enable further development.
Energy Union	Connections and production	private	Connecting off-shore windparks	Private	Connecting off-shore windparks.			5.0			technological and administrative burdens
Energy Union	Connections and production	private	Crosslinks in the offshore-grid	Federal level	Grid connections to offshore windparks are usually single connection (onshore to one windpark). To increase grid reliability, cross-linking sections between the various onshore-to-offshore connections are needed. This has already been done in the Baltic Sea where the well established alternating current technology is in use. In the North Sea wind parks are being connected via the new direct current technology making cross-linking connections more costly.		Under assessment within the national network development plan.	0.2			
Energy Union	Connections and production	private	Deutsche Bucht (Offshore windpark)	Private	Offshore windpark development			1.0			technological risks
Energy Union	Connections and production	private	Nordsee 1 (Offshore windpark)	private developers	Project financing (up to 0.15 EUR bn) / main sponsor is Northland Power (RWE developed the project and will remain minority sponsor holding 15 %)			1.2			Start of construction: Feb 2016 IPEX not yet officially mandated
Energy Union	Connections and production	private	Sandbank (Offshore windpark)	private developers	Offshore windpark			1.3			technological risks
Energy Union	Connections and production	public private	Renewable Energy - regional cooperation projects - Offshore wind	Federal level with cooperating MS	regional cooperation projects together with other neighboring countries. i.e. e.g. 400 MW wind offshore park with northsea neighbours		projects can be developed based on the concept developed for the PV pilot and according to financial resources	3.0	0.7		financial support by EIB (soft loans, grants) would be of particular importance since EEG opening for the time being only possible for PV pilot tender; but need to start enhanced regional cooperation already now; much higher overall financial costs
Energy Union	Connections and production	private	Wind farm I	Private	Finance of a Windpark in Germany through a Luxembourg investment vehicle		Bidding	0.3			German Investment Code (KAGB) does not offer suitable investment vehicle. Changes in KAGB to enable investment via vehicle under KAGB
Energy Union	Connections and production	public private	Wind farm II	Municipal company	Finance of a small Windpark		Canceled	1.5			Rating of the borrower too low. Possible solution could be a guarantee from a higher rated institution or a credit enhancement by such an institution (similar to EIB project bonds).

Sector	Subsector and production	Private/Public/PPP	Project name	Implementing agency	Description	Included in national investment plan (yes/no)	Status	Investment in 2015 – 2017 (EUR bn)		Barriers/solutions
								Total investment cost (EUR bn)		
Energy Union	Connections and production	private	European GWp Fab for Advanced Cell Technologies (Scenario 1)	Private	Strategic project to bolster the European Solar Cell manufacturing industry thus preserving a domestic European PV-industry. The project would accelerate the commercialization of high-efficiency solar cells.		Fab-layout and production upgrade measures defined and ready for implementation.	0.0	0.0	
Energy Union	Connections and production	private	European GWp Fab for Advanced Wafer, Cell and Module Technologies (Scenario 2)	Private	Strategic project to bolster the European PV-module manufacturing industry thus preserving a domestic European PV-industry. The project would accelerate the commercialization as well as the testing of innovative PV-modules and systems		Fab-Layout and production upgrade measures defined and ready for implementation	0.2	0.2	The remaining, cash-strapped European industry lacks liquidity for investing in next-generation technologies for Wafer-, Solar Cell and PV-module processing. Funding would support the Capex necessary for implementing novel technologies thus re-gaining technology lead
Energy Union	Connections and production	private	xGWp – European Gigawatt Fab	Fraunhofer Institut f. Solare Energiesysteme ISE	Highly efficient photovoltaic products with two production sites: one cross-border France - Baden Württemberg and one cross-border Netherlands - NRW	No	2015: establishment and full use of capacity for 90 MW p/a 2017: expansion of up to 1,000 MW p/a	0.6	0.6	lack of long-term financing
Energy Union	Connections and production	public private	Haitabu	Federal level	LNG-Terminal incl. regasification for vessels up to 150,000 m3; capacity of about 6 to 8 bcm. Storage capacity would be 300,000 m3. The terminal would be important for our strategic orientation to diversify sources and infrastructure for the supply of natural gas. The terminal could be a key project on the path of achieving a less vulnerability in energy supply by too little gas producing countries. It is not only important for the security of supply in Germany but also in the neighbouring countries that are connected by pipelines with Germany.	No	Conception and planning; part of the strategic decision that probably will to be felled in 2015;	1.0	0.6	Lack of short term roi will lead to financing problems. A combination of EC grants, EIB and special national regulation could overcome these problems.
Transport	Corridors and missing links	public private	BAB A1/A30 (Highway)	Federal level	A 1 AS Münster/Nord – AK Lotte/Osnabrück und A 30 AS Rheine – AK		announced (not yet in tender)	0.5	0.1	administrative barriers
Transport	Corridors and missing links	public private	BAB A44 (Highway)	Federal level	A 44 Diemelstadt – Kassel/Süd		announced (not yet in tender)	0.1	0.0	administrative barriers
Transport	Corridors and missing links	public private	BAB A6 (Highway)	Federal level	A 6 Wiesloch-Rauenberg – AK Weinsberg		in tender	0.5	0.1	administrative barriers
Transport	Corridors and missing links	public private	BAB A61/A650/A65 (Highway)	Federal level	A 61 Landesgrenze Rheinland-Pfalz / Baden-Württemberg-Worms		announced (not yet in tender)	0.2	0.1	administrative barriers
Transport	Corridors and missing links	public private	BAB A7 (Highway)	Federal level	Development and upgrade of the A7 motorway between Saizgitter and Göttingen			0.4		

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Transport	Corridors and missing links	public private	BAB A94 (Highway)	Federal level	A 94 Pasterlein – Heldenstein The aim of the project is to close the gap and build the motorway between the two existing Sections Pasterlein and Heldenstein (approx. 33km). Post completion of the gap the project comprises the operation and maintenance of the whole section between Forstinning and Markt (77km) for 30 years.		in tender	0.6	0.2	Expected Return Target <3% in combination with an expected BBB Rating reflects not our risk/return requirements. Long construction period, construction risk, contractant risk	
Transport	Corridors and missing links	public private	Neue Generation ÖPP (Highway)	Federal level	670 km Autobahn: A 3 six-lane extension: AK Bielefeld – AK Fürth/Erlangen A 4 maintenance: AS Gotha – LGr TH/SN A 6 six-lane extension: AK Weinsberg – AK Feuchtwangen/Crailsheim A 8 six-lane extension: Rosenheim - Bundesgrenze D / A A 10/A 24 six-lane extension (A 10) and overhaul (A 24): AS Neuruppin (A 24) – AD Pankow/LGr BB (A 10) A 49 gap closing / new construction: AK-Kassel/W – Anschluss A49 A 57 six-lane extension: Köln - Moers E 233 four-lane extension: AS Meppen (A 31) – AS Cloppenburg (A 1) B 247 new construction: Bad Langensalza – A 38 A 20: Elbe-crossing (F-Modell) A 26 four-lane extension and new construction, F-Modell: Hamburg (A1) - Rübke			7.5			
Transport	Corridors and missing links	public	Deepening of the river Elbe	Federal level	Bottlenecks in links with seaports threaten to become an obstacle to growth. In the light of increasing ship sizes which make the transport by sea more efficient and environmentally friendly, overhauling the seaward approaches is a vital step to be taken.	Yes	Currently on hold. Plannings are finished. Project awaits judgement by the Federal Administrative Court and the European Court of Justice on the case of the deepening of the river Weser. Similar to that case, environmental NGOs initiated proceedings as to whether Planning considered the provisions of the EU Water Framework Directive appropriately.	0.4	0.4	Planning law and legal practice, associations initiating proceedings against planning permissions	

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Transport	Corridors and missing links	public	Deepening of the river Weser	Federal level	Bottlenecks in links with seaports threaten to become an obstacle to growth. In the light of increasing ship sizes which make the transport by sea more efficient and environmentally friendly, overhauling the seaward approaches is a vital step to be taken.	Yes	Currently on hold. Plannings are finished. Project awaits judgement by the Federal Administrative Court and the European Court of Justice as to whether Planning considered the provisions of the EU Water Framework Directive appropriately. Case was brought forward at the national level by environmental NGOs.	0.1	0.1	Planning law and legal practice, associations initiating proceedings against planning permissions
Transport	Corridors and missing links	public	DEK-Nordstrecke (waterways)	Federal level	Construction of five new locks.	Yes	Ongoing planning approval procedure.	0.4	0.4	administrative barriers
Transport	Corridors and missing links	public	Kleine Schleusen am WDK (waterways)	Federal level	Replacement of the locks.	Yes	Detailed planning	0.1	0.1	administrative barriers
Transport	Corridors and missing links	public	Schleuse Erlangen (waterways)	Federal level	Replacement of the lock.	Yes	Pre-planning	0.2	0.2	administrative barriers
Transport	Corridors and missing links	public	Schleuse Kriegenbrunn (waterways)	Federal level	Replacement of the lock.	Yes	Pre-planning	0.2	0.2	administrative barriers
Transport	Corridors and missing links	public	Staustufe Kachlet (waterways)	Federal level	Maintenance of the dam.	Yes	Pre-planning	0.3	0.3	administrative barriers
Transport	Corridors and missing links	public	Wehr Koblenz (waterways)	Federal level	Reconstruction of embankment.	Yes	Pre-planning	0.2	0.2	administrative barriers
Transport	Corridors and missing links	public private	Nord-Ostsee-Kanal (waterways)	Federal level	Repairs and expansion of the existing Nord-Ostsee-Kanal and locks. The NOK is the busiest water route in the world and an important connection between the West and the East of Germany and Europe.	Yes	Planning	1.5	0.5	So far national project, PPP not yet envisaged
Transport	Business enablers	public	Highway bridge Leverkusen	Federal level	Speeding up the construction of a new highway bridge to replace the current one that had to be closed for heavy vehicles due to its ailing state. A new law proposal foresees that only the federal administrative court will decide over potential lawsuits. Construction to be finished by 2020.		Construction to start in 2017.	0.5	0.2	Legal hurdles: high risk of law suits
Transport	Business enablers	public private	Highway bridge Karlsruhe-Maxau	Federal level	Build new bridge to replace the current bridge (Karlsruhe - Maxau) and expand capacity - current bridge would be overhauled after construction of new bridge and thus provide additional capacity.	no	Construction could start in 2017 and would take 3 years total.	0.1	0.1	Financial constraints

Sector	Subsector	Private/Public/PPP	Project name	Implementing agency	Description	Included in national investment plan (yes/no)	Status	Total investment cost (EUR bn)	Investment in 2015 – 2017 (EUR bn)		Barriers/solutions
									(EUR bn)	(EUR bn)	
Transport	Business enablers	private	Waterways	Federal level	Political decision to either expand existing locks to allow for bigger ship sizes or overhaul locks without expansion. Ship owners are awaiting decision before fleet renewals with either smaller or bigger ships depending on the outcome.		Currently ship modernization is on hold with goods transport moving to rails and roads due to uncertainty about future lock sizes. Expanding existing locks to allow for bigger ships would require investments of 1 bn. Euro. Alternatively fleet modernization with smaller ships could be encouraged through fiscal incentives (0.4 bn.)	1.0	1.0	administrative coordination problems (standards, permits)	
Transport	Business enablers	public private	Pre-Gate	Federal level	Providing parking and sorting opportunities for trucks between highways and ports would enable more effective loading and unloading processes. In addition, a common (pan-European) data interface for the registration of trucks would increase efficiency and safety (resting times for truck drivers could be optimized).		Plans for individual ports are in different states of realization. The land necessary for developing pre-gate often lies in different territorial jurisdictions making the involvement of numerous stakeholders necessary. A lack of coordination between ports hampers the development of a common digital interface for registering trucks at terminals.	0.4	0.4	Administrative coordination problems and financing needs. Solution: Creating a task force to coordinate work flows and standardization. Development of digital standard should be pushed on European level.	
Transport	Business enablers	private	Expansion of Airport Frankfurt: Terminal 3	Fraport AG	Extension of the existing Frankfurt Airport by a third terminal building	no	Plannings are finished. Construction can start immediately.	3.0	1.5	Political decision at federal state level to re-assess the need of the project.	
Transport	Urban transport	public	Tunneling the Mittlerer Ring Munich	Municipal level	Tunneling part of the Münchner Mittlerer Rings between Landsheimer Aller and Tegernseer Landstrasse.	No	often	1.5	0.5	n/a	
Social Infrastructure	Education and training	public	University buildings	regional level (NRW)	Construction of buildings and accompanying facilities/equipment for universities of Bonn, Bochum, Dortmund, Duisburg-Essen, Aachen, Düsseldorf, Wuppertal, Siegen, Bielefeld, Münster, Paderborn, Hagen.	No	modernisation and reconstruction within the framework of the specialised university construction programme;	1.8	0.5	budget constraints	
Social Infrastructure	Health	private	Establishment of ambulant, local residential communities	private and municipal initiatives	building of new ambulant, local residential communities due to demographical changes to avoid nursing homes as long as possible	No	demand for 5.000 units in NRW until 2030	4.0	1.0	lack of long-term financing; solution seen in reduced interest rates for investments	
Social Infrastructure	Health	private	Investments in hospitals	privately owned hospitals and municipality owned hospitals	investments in medical equipment	No	high investment lag in NRW	4.9	2.1	lack of long-term financing	
Social Infrastructure	Health	public private	Landeslabor Berlin Brandenburg	Regional level (Berlin)			in tender	0.1	0.1		
Social Infrastructure	Health	public private	Universitätsklinikum Schleswig-Holstein (UKSH)	Regional level	University Hospital Schleswig-Holstein in Kiel and Lübeck / Reconstruction and refurbishment of the hospital buildings			0.6	0.3	Financial close: Sept 2014; start of construction: 2015 (6 year construction period) IPEX participation: 0.82 EUR bn	

Sector	Subsector	Private/Public/PPP	Project name	Implementing agency	Description	Included in national investment plan (yes/no)	Status	Total investment cost	Investment in 2015 – 2017	Barriers/solutions
								(EUR bn)	(EUR bn)	
Social Infrastructure	Built environment and urban services	public	Restoration of social buildings in cities and communities	Federal/regional level	The goal of the "social infrastructure regeneration programme" is to help dismantle the municipal investment backlog and promote social cohesion and integration, especially in deprived neighbourhoods, through the general refurbishment of public buildings. The support will fund the comprehensive modernisation of public buildings (also incorporating, e.g., energy upgrades and heritage conservation law) and facilities of the Länder or local authorities (e.g. kindergartens, schools and universities, hospitals and other services of general public interest).			1.5	1.5	
Social Infrastructure	Built environment and urban services	public private	Police Headquarters Aachen	Regional level (NRW)			in tender	0.1	0.1	
Social Infrastructure	Built environment and urban services	public private	Police Headquarters Southeast Hesse	Regional level (Hessen)			in tender	0.1	0.1	
Resources and Environment	Natural resources: efficient and secure availability	private	Carbon monoxide pipeline	Private	Connecting chemical industry sites		The pipeline is built but not yet operational due to judicial and administrative barriers.	0.1		ongoing multi-year judicial processes
Resources and Environment	Resilience to Climate Change	public	National Flood Protection Programme	Federal/regional level	Flood protection measures are large scale building projects. As they protect regions from major disasters they support all sectors mentioned in Annex 1, especially transport, social infrastructure as well as resources and environment.		Decision Conference of German Environment Ministers 2014 Oct. 24th	5.4	0.8	Main barriers for the measures' implementation are financing and duration of proceedings. Potential for improvement is currently under discussion.
Resources and Environment	Resilience to Climate Change	public private	Infrastructure for alternative fuels	Federal/regional/municipal level	To build a comprehensive infrastructure for alternative fuels private investors need to be incentivised.	no	political discussion	1.0	1.0	financial barriers

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ANNEX 2 - Project lists from Member States and the Commission

PART 3

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PROJECT LIST FROM EUROPEAN COMMISSION

DISCLAIMER:

The European Commission in line with its recent communication 'An Investment Plan for Europe' takes the opportunity as part of this special Task Force to make a first attempt and pave the foundations for developing a forward-looking pipeline of projects at EU level complementing the lists prepared by Member States. It considers that the work of the Task Force will increase transparency and certainty for investors and in doing so encourage potential private investors to invest and build capabilities and expertise in Europe. A transparent project pipeline at EU level will be a dynamic tool for restoring Europe's attractiveness and putting Europe on a sustained upward investment and growth trajectory.

Important sources of funding for projects at EU level already exist under EU programmes such as the Connecting Europe Facility, Horizon 2020 and COSME as well as under the European Structural and Investment Funds where EUR 450 billion (EUR 630 billion including national co-financing) is available up to 2020. These programmes provide grants and financial instruments and interested parties should consult the relevant website of the Commission for more information.

The attached illustrative lists of projects and schemes cover policy areas in line with the priorities outlined in the Jobs, Growth and Investment package presented on 26 November.

The projects were exclusively identified by the Commission and have not been subject to any discussion and/or scrutiny by the other members of the Task Force (i.e. the Member States and the EIB). They are purely illustrative examples and in no way shall such a list be considered to be exhaustive. It is important to note that the order in which the list has been drawn up does not imply any differentiation or prioritisation by the Commission and should in no manner be regarded as an exhaustive, formal or final pipeline. There remains the potential for duplication of certain projects between the Commission list and the lists of Member States; a limited cross check between the different lists has been carried out within an extremely tight time frame. The latter has also influenced project selection, which was carried out on a best effort basis and was based on information currently available to the Commission under programmes that have already been approved or that are under negotiation. Moreover, only a limited number of Commission departments could be consulted.

Inclusion of a project in the present list does not imply or exclude current or future commitment from EU/EIB resources, nor does it allow preferred access to EU/EIB or national funding sources. A project appearing on the list does not necessarily imply that there has been any previous contact with the Commission on the project in question. Similarly, projects that are not included in the attached list are not excluded from access to EU resources or any other funding sources. All projects submitted to the Commission and/or the EIB or Member States for funding will be subject to normal due diligence in line with existing procedures and guidelines and would need to fulfil all relevant applicable European Union and national rules and requirements.

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
EU28	Knowledge Innovation Digital	Research Data Access and Preservation Nodes The envisaged scenario is to establish a European data service infrastructure with 100 nodes in Europe (universities, research laboratories, research organisations, etc.[1]), 40 high-end and 60 medium-end (respectively establishment costs 1.5m and 0.5m, recurrent costs 0.8m and 0.4m annually).	102m	102m
EU28	Knowledge Innovation Digital	High performance computing Action is needed to support the deployment in Europe of world-leading HPC infrastructure. The users of HPC systems and applications in Europe include the most profitable and vibrant industrial sectors. 97 % of the industrial companies that employ HPC consider it indispensable for their ability to innovate, compete, and survive	160m	80m
EU28	Knowledge Innovation Digital	EU support to develop digital professional skills Companies' investments in ICT only yield the desired benefits if complementary investments in organisation and digital skills accompany the hardware and software. Thus, the continuing functioning of this engine of growth requires sufficient supply of ICT professionals.	300m	tbd
EU28	Knowledge Innovation Digital	Civil remotely piloted aircraft systems (RPAS) Development of technology for Drones	400m	400m
EU28	Knowledge Innovation Digital	European Metrology Research Programme (EMPIR) EMPIR will comprise leading-edge research associated with the international measurement units targeting industry's needs to speed up uptake of metrology research results, keeping the European leadership in standardization.	600m	300m
EU28	Knowledge Innovation Digital	MYRRHA - Multi-purpose hybrid Research Reactor for High-tech Applications The MYRRHA project aims to establish in Mol (Belgium) a state-of the art, multipurpose large, research infrastructure, serving European and international researchers by providing a highly performing and versatile installation supporting nuclear, medical and materials research, as well as training and educational purposes.	1 000m	tbd
EU28	Knowledge Innovation Digital	BONUS 2 will concentrate Research programmes in the Baltic sea and adjacent seas to support sustainable economic development and innovative solutions and to address the severe environmental challenges facing the region.	230m	50m
EU28	Knowledge Innovation Digital	European Human Biomonitoring Initiative (EHBMI) The EHMBI will bring together the national and EU level activities on human biomonitoring to create a joint knowledge base on the chemical exposure of European citizens and the impact of chemicals on health and to establish a strong evidence base for sound policy making and monitoring the impact of policies, in support of the relevant industrial sectors and public health.	200m	100m
AT	Knowledge Innovation Digital	Land Niederösterreich The project is based on the development of a wholesale only company in Lower Austria. The project is composed by a pilot phase and then will go in full deployment to connect more than 525K households. The project will be based on an open access approach	1 030m	250m
AT	Knowledge Innovation Digital	The "District of Weiz" representing 54 communities Project submitted by the Weiz community. With the rural structure of the district many enterprises (predominantly SMEs and micro enterprises) suffer from insufficient broadband supply. They cannot afford to pay for getting individual high speed access. However, WKO activity is not only directed towards companies - the goal is "fibre for all" including services for the public (health, care for elderly, E-government, schools, etc.) and as a means of "social" infrastructure. ("BH Weiz") and WKO (Chamber of Commerce) are the sponsors.	30m	30m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
BE	Knowledge Innovation Digital	<p>City of Ghent The city of Ghent has since long been convinced of the importance of having an adequate future -proof infrastructure and platforms in place. This belief has increased through the wish of the city to become a smart city in all aspects. Innovative technology is not the main aspect of this but a necessary condition.</p> <p>Ghent has contributed as partner to the Terrain (TECHNO-ECONOMIC RESEARCH FOR FUTURE ACCESS INFRASTRUCTURE NETWORKS) study. Key partners identified to ensure the further development were the internal services of the City of Ghent, together with the organisation responsible for ICT (Digipolis Gent) and private fiber partners.</p>	10m	10m
BG	Knowledge Innovation Digital	<p>City of Pazardzhik / Pazardzhik Project concerning the connection of the city of Pazardzhik and its immediate surroundings by FTTH technology</p>	6m	6m
BG	Knowledge Innovation Digital	<p>Bulgaria "Electronic Communication Networks and Information Systems" (EA ECNIS) This project is the second phase of the launched 2012 by the Executive Agency Electronic Communications Networks and Information Systems (EA ECNIS, gov) and ongoing pilot-phase national coverage project "Development of high-speed broadband access in Bulgaria through building critical, secure, safe and reliable public ICT infrastructure", co-financed by EFRD, which is enabling new generation access (NGA) to economically weak "White and Gray Zones" in rural municipalities that investors consider economically non-viable to them as of high investment costs, combined by low income population, thus of high risk and low ROI.</p>	40m	40m
CZ	Knowledge Innovation Digital	Extreme Light Infrastructure - Beamlines, Phase 2	49m	tbd
DE	Knowledge Innovation Digital	Sachsen: FTTB/ LTE Advanced	200m	200m
DE	Knowledge Innovation Digital	Mecklenburg-Vorpommern: NGN deployment in rural areas by LTE Advanced – and FTTC	750m	750m
DE	Knowledge Innovation Digital	<p>Schleswig-Holstein FTTH/FTTB projects in tender for counties: Schleswig/ Flensburg; Dithmarschen; Steinburg; Ostholstein; Plön PPP (GmbH) projects for counties: Fehmarn; Husum; Breklum</p>	1 000m	1 000m
DE	Knowledge Innovation Digital	Bayern rural areas (FTTH/FTTC/LTE)	2 000m	2 000m
DE	Knowledge Innovation Digital	Niedersachsen FTTC and LTE	1 000m	tbd
DE	Knowledge Innovation Digital	Rheinland-Pfalz NGN	120m	120m
DE	Knowledge Innovation Digital	Hessen NGN	350m	350m
DE	Knowledge Innovation Digital	<p>Kreis Paderborn The project foresees the development of FTTC / FTTB / FTTH network is the foundation for the further development of NGA networks in the district of Paderborn . The focus of a circular -wide coordinated approach to the possible synergistic effects of inter-municipal broadband strategy is to use optimal. The individual cities and towns may well choose different design variants and work with different providers. More than 1470 km fibre will be laid</p>	18m	18m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
DE	Knowledge Innovation Digital	Kreis Gütersloh The projects foresees the deployment of FTTH/B network and on which cloud computing services can be installed. Main beneficiaries will be households and SMEs in the area. More than 2000km of fiber will be laid.	43m	43m
DE	Knowledge Innovation Digital	Zweckverband Breitband Altmark The project of the "Zweckverband Breitband Altmark" (short: ZBA) aims at providing the region "Altmark" with high-speed internet access via fibre networks.	70m	70m
DE	Knowledge Innovation Digital	Südwestfalen / South Westphalia The provision of complete broadband coverage in South Westphalia counts as one of the most important tasks for future-oriented development from both a business and social perspective. The region has defined the provision of complete high-performance and future-proof, open-access broadband coverage for business and private users as an important goal of their policies.	80m	80m
DK	Knowledge Innovation Digital	Læsø Kommune – local government/municipality of Laesoe. The project is situated on an island in the smallest Danish municipality. It builds on the physical presence of a high-speed optical fiber broadband cable, ready to operate, situated 'on the shore' and a confirmed positive consensus from the state-owned company 'Energinet A/S' (cable owner) that the fiber can be leased to an operator on very reasonable terms, the local government on Læsø aims at a full-scale roll-out covering the entire island.	10m	10m
EE	Knowledge Innovation Digital	Rural Estonia The project is promoted by the Estonian Broadband Development Foundation for rural white areas. It entails: 1. Detailed mapping of regional communities interest 2. Designing and coordinating with landowners 3. Development of broadband internet 4. Development of remote jobs 5. High Speed Broadband Network is established for local and regional communities.	10m	10m
ES	Knowledge Innovation Digital	GRAN CANARIA ISLAND (CANARY ISLANDS OUTERMOST REGION) The project is about developing a network for the wholesale market of telecom infrastructure, which is to be used by OpCos to provide broadband services in the retail market of telecom services. As a result, two types of demand have to be analysed: direct and indirect demand. – Direct demand: wholesale demand of telecom infrastructure generated by OpCos who require infrastructure to build their telecom networks. – Indirect demand: retail demand of telecom services, generated by end-users, who require such services for different reasons (communication, work, leisure, safety, health, etc.)	13m	13m
ES	Knowledge Innovation Digital	Government of Navarra This project looks investing in two different levels of a high capacity new generation broadband network, considering the various technologies available for each level. • The very high capacity transport network: to allow high capacity over large distances. Because traffic from a large number of end users is aggregated in the access nodes fiber optic cable is often the technology of choice due to its high capacity. High-capacity wireless links are also used, especially in remote and rough geography • The access networks, which comprises the connection between the end user and the nearest access network node. Various technologies are available for providing broadband connections depending on the requirements and available funding (including existing copper lines, FTTH, HFC and advanced wireless networks).	59m	59m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
ES	Knowledge Innovation Digital	San Fernando, Cádiz, Andalucía The project foresees deployment of FTTH to most residential areas, together with wireless connection for areas where FTTH is not practical. The consortium is in phase of creation	10m	10m
FI	Knowledge Innovation Digital	Region of North Karelia The area of cooperation covers approximately half the land area of Finland and is the most challenging area for broadband construction owing to its low population, large distances, and low population density. Hence the need for a variety of measures with strong public support in order to meet the objectives of the EU's Digital Agenda. FTTH (at least 30 MB optical fibre network) availability to permanent places of residence by region: Lapland 3 %, Region of Kainuu 17 %, Region of Oulu 24 %, Region of North Karelia 8 % and Region of North Savo 11 % (Source: Finnish Communication Regulatory Authority 2013). Besides this, the availability differences are very high between municipalities.	6m	6m
FR	Knowledge Innovation Digital	Village de Viviers lès Lavaur Déploiement d'un réseau FTTH qui apportera 2 fibres monomode dans chaque bâtiment connecté. A l'autre extrémité de ces fibres, nous installerons un switch gigabit équipé de 24 ports SFP. Notre réseau sera donc un réseau gigabit. Nous allons enterrer nos câbles de fibres en bordure de route et en aérien à certains endroits. Ce réseau de desserte sera raccordé à un réseau de collecte, soit en radio sur une agrégation de liens VDSL via le logiciel mlvpn qui nous utilisons déjà sur des liens ADSL, soit directement raccordé à un câble optique qui pourrait être déployé.	9m	9m
FR	Knowledge Innovation Digital	Conseil général des Yvelines En zone publique, le déploiement de la fibre optique et du réseau THD sera effectué par des partenaires privés, sélectionnés par le CG78 au moyen d'appels d'offres. Le département des Yvelines travaille son projet de réseau à Très Haut Débit avec les communes et les Etablissements Publics de coopération intercommunale. (15 établissements actuellement). Le Conseil Général envisage de créer un Syndicat Mixte Ouvert (SMO) impliquant formellement tous les Etablissements Publics de coopération intercommunale concernés. Ce SMO assurerait la gouvernance et la maîtrise d'ouvrage du projet de Réseau THD Yvelinois.	130m	130m
FR	Knowledge Innovation Digital	Nièvre La couverture en très haut débit par fibre optique de tous les foyers du département est la cible à terme. Cette ambition repose sur le souhait d'assurer une pérennité des accès neutre et pérenne. La combinaison des initiatives privée, pour un quart des foyers, ceux de l'agglomération de Nevers, et de l'initiative publique dans les zones les plus rurales, sera engagée entre 2015 et 2020 dans les principaux bassins de vies pour atteindre 60% de prises raccordables en 2020.	50m	50m
GR	Knowledge Innovation Digital	Western Greece The proposed activities aim at the connection of all suburban areas of the city of Patras, which are not planned to be covered by broadband connections of the Municipal Infrastructures, but also not included to the National Rural Broadband initiative that reaches the Municipal borders. The basic target is to exploit those large scale infrastructures and develop a bridge between them in order to achieve total broadband coverage of Next Generation Access (NGA) Networks within the capital of the Region of Western Greece, the city of Patras.	10m	10m
HR	Knowledge Innovation Digital	Primorsko-goranska County The "e-County" project in PGC is the strategic project initiated as a continuous process with the aim to start building the new (DAE target based) NGA networks covering all county areas	220m	220m

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HU	Knowledge Innovation Digital	ELI-ALPS major project phase II (ELI – Extreme Light Infrastructure)	> 50m	tbd
IE	Knowledge Innovation Digital	North West Donegal Gaeltacht This initiative is included and approved within the Donegal Digital Strategy working group formed by stakeholders representing: <ul style="list-style-type: none"> • public sector (Donegal County Council, Udaras na Gaeltachta, Enterprise Ireland, IDA) • private companies • university and education sector (Letterkenny Institute of Technology) 	9m	9m
IT	Knowledge Innovation Digital	Regione Autonoma Friuli Venezi Giulia The project is the second phase of the ERMES programme and aims at providing residential FTTH connectivity and wireless connection in white spots of the region Friuli Venezia Giulia	18m	18m
IT	Knowledge Innovation Digital	Innovative investment in the manufacturing sector of national relevance and energy production	> 50m	tbd
NL	Knowledge Innovation Digital	The province of Drenthe The project is located in the Province of Drenthe which facilitates resident initiatives with an Next Generation Access	70m	70m
NL	Knowledge Innovation Digital	Province of Groningen, rural area, Oldambt The project is focused at the deployment and modernisation of a high speed broadband network (>100Mbps) for the small municipality "Oldambt" in the rural area (East of Groningen) in the Netherlands cross border with North-Germany. A project demand driven and focused at the need, challenges and perspective of the rural area with a close involvement of the society (citizens, Ngo's, SME's and industry).	13m	13m
PT	Knowledge Innovation Digital	North of Portugal The project is proposed by a Portuguese telecom operator. For the coverage of the 593,749 inhabitants not included in the North Next Generation Networks project, it is intended to provide several Municipalities with a high-speed infrastructure with network capillarity (FTTH/B), with a 50% coverage estimated to correspond to 326,493 available houses that dstelecom wants to cover.	58m	58m
PT	Knowledge Innovation Digital	Alentejo The project is proposed by a Portuguese telecom operator. Given the infrastructure project of Rural Alentejo Zones, carried out between the years of 2011 to 2013, it now arises the need to encourage and involve some of the Municipalities that, not covered in the Next Generation Networks project, remain with a very low bandwidth penetration rate.	50m	50m
PT, ES	Knowledge Innovation Digital	Portugal-Canaries-Brazil submarine cable Brazilian telecom provider Telebras formed in 2014 a joint venture with Spain's IslaLink Submarine Cables to lay and operate a new direct undersea broadband optical cable system linking Brazil (Fortaleza) to Portugal (probably Lisbon). The project has been welcomed in the joint statement of the EU-Brazil Summit on 24 February 2014.	101m	101m
RO	Knowledge Innovation Digital	Extreme Light Infrastructure - Nuclear Physics (ELI-NP), phase 2	> 50m	tbd
RO	Knowledge Innovation Digital	Cadaster project	> 50m	tbd
SI	Knowledge Innovation Digital	Broadband network for Slovenia The project proposes a nationwide deployment in rural areas. Technical solution is a combination of FTTN, FTTH and LTE technologies – best of each approach.	470m	470m

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SI	Knowledge Innovation Digital	Municipality of Ajdovscina The aim of the project is to build a Ultra-Fast network composed of the following segments: - The first segment is the access part (last mile) which should grant each user a connection capacity of at least 100 Mbps as determined in the drafted national strategy. - The second segment is the aggregation of the villages (backbone network) to a main node (or nodes), which should grant the overall capacity of three times the sum of all access capacities	10m	10m
SK	Knowledge Innovation Digital	Strengthening of research / innovation capacities of the universities in the area of intelligent specialization	> 50m	tbd
UK	Knowledge Innovation Digital	Cumbria and Northumberland The proposed project would deploy fibre to the premise as this is the most futureproof solution and the most “investable” way of building the networks. Networks already built and being constructed in the target area use a mixture of GPON and point to point fibre technologies to provide flexibility for home and business users with an ability to increase capacity to customers as new bandwidth comes on stream.	20m	20m
UK	Knowledge Innovation Digital	Centre of Excellence	> 50m	tbd
AT	Energy	3.1. Cluster Austria - Germany between St. Peter and Isar including the following PCIs: 3.1.3. Internal line between St. Peter and Ernstshofen (AT) 3.1.3.: Upgrade from 220 kV operation to 380 kV of the 112 km AC OHL with a capacity of approximately 3000 MVA between Erntshofen and St.Peter (onshore) and erection of a 380 kV substation.	part of 50bn PCIs	part of 50bn PCIs
AT	Energy	Smart metering systems roll out in Austria's electricity sector Wide scale roll out of smart metering systems in Austria's electricity sector (roll out of approx 5.4 million meters)	3 195m	1 917m
AT	Energy	Smart metering systems roll out in Austria's gas sector Wide scale roll out of smart metering systems in Austria's gas sector (roll out of approx. 1.4 million meters)	352m	352m
AT, DE	Energy	5.18 PCI Reinforcement of the German network to reinforce interconnection capacities with Austria [currently known as Monaco pipeline phase I (Haiming/Burghausen-Finsing)] New pipeline of 90 km with a daily capacity of 52.8 MCM/day, including two steering and metering stations. Off-take points are located in Haiming, and Finsing have as annual volumes values 3.7 and 2.8 BCM/year respectively.	part of 50bn PCIs	part of 50bn PCIs
AT, IT	Energy	3.4. PCI Austria – Italy interconnection between Wurmlach (AT) and Somplago (IT) A new 220 kV AC OHL of 40 km and with a capacity of 300 MVA from Somplago substation to Wurmlach substation (onshore).	part of 50bn PCIs	part of 50bn PCIs
BE	Energy	1.2. PCI Belgium – two grid-ready offshore hubs connected to the onshore substation Zeebrugge (BE) with anticipatory investments enabling future interconnections with France and/or UK Two offshore hubs connecting offshore wind farms and connected to each other and to the AC onshore grid with underground cables, including compensation (offshore)	part of 50bn PCIs	part of 50bn PCIs
BE	Energy	2.2. Cluster Belgium - Germany between Lixhe and Oberzier [currently known as the ALEGrO project] including the following PCIs: 2.2.2. Internal line between Lixhe and Herderen (BE) 2.2.2.: A new 380 kV AC circuit between Lixhe and Herderen (BE), a second 380 kV OHL in / out from Herderen to Lixhe (10 km).	part of 50bn PCIs	part of 50bn PCIs
BE	Energy	5.16 PCI Extension of the Zeebrugge LNG terminal LNG/ CNG terminal with an annual send-out capacity/additional send-out capacity of 3 BCM/year, a storage capacity/ additional storage tank of 180000 CM and a maximum ship size of 266000 CM. The new LNG tank, send-out and the new jetty will increase the capacity of LNG supply to Belgium (and to NW Europe) by about 25%.	part of 50bn PCIs	part of 50bn PCIs

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BE	Energy	Seastar 252 MW off-shore wind park	tbd	tbd
BE	Energy	North of Bligh Bank 450 MW off-shore wind park	610m	tbd
BE	Energy	THV Mermaid (wind and wave platform) 235 MW off-shore wind park	tbd	tbd
BE, FR	Energy	5.13 PCI New interconnection between Pitgam (France) and Maldegem (Belgium) New pipeline Pitgam (FR) and Maldegem (BE) with a daily capacity of 24 MCM/day (onshore). The power of the compressor station is yet to be determined.	part of 50bn PCI's	part of 50bn PCI's
BE, LU	Energy	2.3. Cluster Belgium - Luxembourg capacity increase at the BE/LU border including the following PCI's: 2.3.1 Coordinated installation and operation of a phase-shift transformer in Schiffflange (LU) 2.3.1.: As a first step (2016) a Phase Shifter Transformer (PST) would be placed in the existing 225 kV line between LU and BE.	part of 50bn PCI's	part of 50bn PCI's
BE, UK	Energy	1.1. Cluster Belgium – United Kingdom between Zeebrugge and Canterbury [currently known as the NEMO project] including the following PCI's: 1.1.3. Internal line between Dungeness to Sellindge and Sellindge to Canterbury (UK) 1.1.3.: Reconductor 400kV AC double circuit OHL between Canterbury, Sellindge and Dungeness (onshore)	part of 50bn PCI's	part of 50bn PCI's
BG	Energy	3.7. Cluster Bulgaria - Greece between Maritsa East 1 and N. Santa including the following PCI's: 3.7.3. Internal line between Maritsa East 1 and Maritsa East 3 (BG) 3.7.3.: Construction of a new 400 kV AC line (OHL) of 13 km and with a capacity of 1700 MVA between Maritsa East 1 and Maritsa East 3 (onshore).	part of 50bn PCI's	part of 50bn PCI's
BG	Energy	6.8.2 Necessary rehabilitation, modernization and expansion of the Bulgarian transmission system 6.8.2.: Upgrade and extension of onshore pipelines in Bulgaria, including projects for rehabilitation, modernization and expansion of the existing national transmission system (modernization and rehabilitation of compressor stations, intelligent pig inspections, expansion and replacement of some sections of the existing transmission system).	part of 50bn PCI's	part of 50bn PCI's
BG	Energy	6.10 PCI Gas Interconnection Bulgaria – Serbia [currently known as IBS] New onshore pipeline with a length of 150 km and a daily capacity of 4.93 MCM/day interconnecting Bulgarian and Serbian gas systems between Sofia (BG) and Nis (RS).	part of 50bn PCI's	part of 50bn PCI's
BG	Energy	6.20 Cluster increase storage capacity in South-East Europe, including one or more of the following PCI's: 6.20.2 Chiren UGS expansion 6.20.2.: New gas storage facility interconnected with the existing gas transmission system on the territory of BG.	part of 50bn PCI's	part of 50bn PCI's
BG	Energy	Installation of cogeneration in Sofia RDF - Sofia District Heating Ltd.	> 50m	tbd
BG, GR	Energy	6.12 PCI Increase the transmission capacity of the existing pipeline from Bulgaria to Greece The project consists of interventions on the already existing transmission gas pipeline and above ground installations in BG.	part of 50bn PCI's	part of 50bn PCI's
BG, GR	Energy	6.8 Cluster Interconnection between Greece and Bulgaria and necessary reinforcements in Bulgaria, including the following PCI's: 6.8.1 Interconnection Greece – Bulgaria [currently known as IGB] between Komotini (EL) – Stara Zagora (BG) 6.8.1.: New onshore pipeline with a length of 185 km and a daily capacity of approximately 13.7 MCM/day. The power of the compressor station(s) is of approximately 20 MW.	part of 50bn PCI's	part of 50bn PCI's
DE	Energy	3.13.PCI internal line in Germany between Halle/Saale and Schweinfurt to increase capacity in the North-South Corridor East New 380 kV AC OHL of 110 km and with a capacity of more than 3500 MVA between the substations Halle/Saale and Schweinfurt (onshore).	part of 50bn PCI's	part of 50bn PCI's

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
DE	Energy	5.10 PCI Reverse flow interconnection on TENP pipeline in Germany Reverse flow at the pipeline section between the interconnection point at Walbach and Bocholtz, with a daily capacity of 22 GWh and with a possible later expansion to 60 GWh (onshore). The power of the compressor station is 8 MW.	part of 50bn PCIs	part of 50bn PCIs
DE	Energy	5.12 PCI Reverse flow interconnection on TENP pipeline to Eynatten interconnection point (Germany) Reverse flow interconnection at Eynatten on TENP pipeline (on a distance of 11 km), determining an additional daily capacity of 5.5 to 22.8 MCM/day from DE to BE and that of 5.5 to 41 MCM/day from BE to DE (onshore). The power of the compressor station(s) will be between 12 and 36 MW, depending on the chosen alternative.	part of 50bn PCIs	part of 50bn PCIs
DE	Energy	Wikinger 350 MW off-shore wind park	1 400m	tbd
DE	Energy	Arcadis Ost 1 348 MW off-shore wind park	1 400m	tbd
DE	Energy	Hohe See 492 MW off-shore wind park	1 500m	tbd
DE	Energy	Gaia IV 340 MW off-shore wind park	tbd	tbd
DE	Energy	Gaia V 330 MW off-shore wind park	tbd	tbd
DE	Energy	MEG Offshore 1 400 MW off-shore wind park	1 700m	tbd
DE	Energy	Nördlichergrund 320 MW off-shore wind park	1 200m	tbd
DE	Energy	Notos 165 MW off-shore wind park	tbd	tbd
DE	Energy	Veja Mate 400 MW off-shore wind park	1 050m	tbd
DE	Energy	Nordsee 2 300 MW off-shore wind park	tbd	tbd
DE	Energy	Nordsee 3 370 MW off-shore wind park	tbd	tbd
DE	Energy	Nordergründe 110.7 MW off-shore wind park	300m	tbd
DE	Energy	Kaikas 580 MW off-shore wind park	tbd	tbd
DE	Energy	He Dreiht 400 MW off-shore wind park	tbd	tbd
DE	Energy	Albatros 350 MW off-shore wind park	1 600m	tbd
DE	Energy	OWP West 328 MW off-shore wind park	tbd	tbd
DE	Energy	Smart metering systems roll out in Germany's electricity sector Partial roll out of smart metering systems in Germany's electricity sector (roll out of approx. 11 million meters)	6 493m	3 247m
DE	Energy	1.3. Cluster Denmark - Germany between Endrup and Brunsbüttel including the following PCIs: 1.3.2. Internal line between Brunsbüttel and Niebüll (DE) New 380 kV AC lines (OHL) of about 200 km and with 3000 MVA capacity in Germany and about 80 km in Denmark (onshore) and new transformers for integration of onshore wind in Schleswig-Holstein, including lines: - Brunsbüttel – Barlt (Süderdonn) – Heide – Husum - Niebüll- border of Denmark Endrup.	part of 50bn PCIs	part of 50bn PCIs
DE	Energy	1.4. Cluster Denmark - Germany between Kassø and Dollern including the following PCIs: 1.4.2. Internal line between Audorf and Hamburg/Nord (DE) 1.4.2.: New 400kV AC double circuit line (OHL) mainly in the trace of an existing 220kV line between Audorf and Hamburg/Nord, including 2 new 400/230kV transformers in substation Audorf.	part of 50bn PCIs	part of 50bn PCIs

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
DE	Energy	1.4.3. Internal line between Hamburg/Nord and Dollern (DE) 1.4.3.: New 400kV AC double circuit line (OHL) between Dollern and Hamburg/Nord, including 1 new 400/230kV transformer in substation Hamburg/Nord and new 400kV switchgear in Kummerfeld. The total length of German lines amounts to 195 km and a 4100 MVA capacity (onshore).	part of 50bn PCIs	part of 50bn PCIs
DE	Energy	Deutsche Bucht 210 MW off-shore wind park	1 000m	tbd
DE	Energy	Sandbank 24 288 MW off-shore wind park	1 200m	tbd
DE	Energy	Nordsee 1 332 MW off-shore wind park	1 200m	tbd
DE, DK	Energy	8.4 PCI Capacity expansion on DK-DE border Extension of onshore pipeline with a length of approximately 63.5 km. The power of the compressor station is (2+1) x 7.69 MW.	part of 50bn PCIs	part of 50bn PCIs
DE, NL	Energy	2.12. PCI Germany – Netherlands interconnection between Niederrhein (DE) and Doetinchem (NL) New 380 kV AC double circuit (OHL) of approximately 60 km and with a capacity of 2x2360 MVA between Niederrhein and Doetinchem (onshore).	part of 50bn PCIs	part of 50bn PCIs
DE, PL	Energy	3.15. Cluster Germany – Poland between Vierraden and Krajnik including the following PCIs: 3.15.1. Interconnection between Vierraden (DE) and Krajnik (PL) 3.15.1.: Upgrade of existing 220 kV AC OHL between Vierraden and Krajnik to 380 kV double circuit OHL with a length of 26 km and a capacity of approximately 3500 MVA (onshore). The upgrade of the line is on condition that the line is equipped with a PST (PCI 3.15.2.) in order to ensure the system security and stability in case of high flows on the mentioned line. The PST has to be installed and operated by cooperation of Germany and Poland.	part of 50bn PCIs	part of 50bn PCIs
DE, PL	Energy	3.15.2. Coordinated installation and operation of phase shifting transformers on the interconnection lines between Krajnik (PL) – Vierraden (DE) and Mikulowa (PL) – Hagenwerder (DE) 3.15.2.: Installation of Phase Shifting Transformers (PSTs) on the upgraded interconnection between Krajnik (PL) and Vierraden (DE) and phase shifting transformers (PSTs) on the existing interconnection between Mikulowa (PL) and Hagenwerder (DE).	part of 50bn PCIs	part of 50bn PCIs
DK	Energy	Kriegers Flak 600 MW off-shore wind park	tbd	tbd
DK	Energy	Horns Rev 3 400 MW off-shore wind park	tbd	tbd
DK	Energy	6 Nearshore Wind Parks 350 MW off-shore wind park	tbd	tbd
DK	Energy	Mejlflak 60 MW off-shore wind park	tbd	tbd
DK	Energy	Smart metering systems roll out in Denmark's electricity sector Wide scale roll out of smart metering systems in Denmark's electricity sector (roll out of approx 3.3 million meters)	310m	155m
EE	Energy	Smart metering systems roll out in Estonia's electricity sector Wide scale roll out of smart metering systems in Estonia's electricity sector (roll out of approx. 0.7 million meters)	110m	110m
EE	Energy	8.1.2.2 Paldiski LNG 8.1.2.2: New onshore LNG terminal near Paldiski (including a reloading facility for bunkering or small scale distribution) with an annual send-out capacity of 2.5 BCM/year. The LNG storage capacity is of about 180.000 – 320.000 CM LNG and the maximum ship size of 165.000 CM LNG (or any standard LNG tanker capable to pass through the Danish Straits).	part of 50bn PCIs	part of 50bn PCIs

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
EE, FI	Energy	8.1 Cluster LNG supply in the Eastern Baltic Sea Region, including the following PCIs: 8.1.1 Interconnector between Estonia and Finland "Balticconnector" and 8.1.1.1.: New bidirectional offshore pipeline (Inkoo-Paldiski, DN500, 80 bar) of 80 km, plus 50 km onshore pipeline in EE (Kiili-Paldiski pipeline, DN 700, 55 bar) and 20 km onshore pipeline in FI (Siuntio-Inkoo pipeline, DN500, 80 bar) including metering and compressor stations at both ends with a daily nominal capacity of 7.2 MCM/day. Capacity can be increased to 11 MCM/day if network capacity in EE and FI is increased. The power of each compressor station is about 10 MW. Estimated share of offshore pipeline is expected to be 50 km as a part of Finnish transmission system and 30 km as a part of Estonian transmission system.	part of 50bn PCIs	part of 50bn PCIs
EE, FI	Energy	8.1.2 One of the following LNG terminals: 8.1.2.1 Finnngulf LNG 8.1.2.1.1.: New LNG terminal in Inkoo with an annual send-out capacity of 8 BCM/year at full utilisation rate. Development in stages: first part includes conventional on-shore storage tank of 165.000 m3 storage capacity (working volume 150.000 m3), connection to Finnish and Estonian (via Balticconnector) transmission pipelines, process equipment for pipeline send-out, reloading facility for bunker use and truck loading. Second stage includes enlargement of storage capacity to total of 330.000 m3 (working volume 300.000 m3). Possible to enlarge to 495.000 m3 storage capacity. The maximum ship size is about 150.000 m3. The pipeline connecting the LNG terminal to the Finnish gas transmission grid from Inkoo is of a length of about 20 km and with a daily capacity 19.2 MCM/day (includes 7.2 MCM/day to EE via Balticconnector). Connecting pipelines, metering and compressor stations are included as a part of Balticconnector project.	part of 50bn PCIs	part of 50bn PCIs
ES	Energy	Smart metering systems roll out in Spain's electricity sector Wide scale roll out of smart metering systems in Spain's electricity sector (roll out of approx. 27.8 million meters)	4 920m	3 690m
ES	Energy	Electrical interconnection Fuerteventura Gran Canaria	> 75m	tbd
ES, FR	Energy	2.6. PCI Spain internal line between Santa Llogaia and Bescanó (ES) to increase capacity of the interconnection between Bescanó (ES) and Baixas (FR) A new 40 km section of 400 kV AC double circuit (OHL) between Sta. Llogaia, Ramis and Bescanó (ES) (onshore), part of the new Sta. Llogaia – Ramis – Bescanó – Vic / Senmenat 400 kV OHL (single circuit in some sections) . It will connect the already commissioned section between Bescanó-Vic / Senmenat 400 kV to the cross-border HVDC Sta LLogaia (ES)-Baixas (FR). New 400 kV substations in Bescanó, Ramis and Sta.Llogaia, with 400 / 220 kV transformers in Ramis and Bescanó.	part of 50bn PCIs	part of 50bn PCIs
ES, FR	Energy	2.8. PCI Coordinated installation and operation of a phase-shift transformer in Arkale (ES) to increase capacity of the interconnection between Argia (FR) and Arkale (ES) New Phase Shifter Transformer (PST) in Arkale 220 kV substation, with affection to control the flows on the 220 kV interconnection line between Arkale (ES) and Argia (FR). Coordinated installation and operation between the 2 countries affected will be required.	part of 50bn PCIs	part of 50bn PCIs
FR	Energy	5.14 PCI Reinforcement of the French network from South to North on the Arc de Dierrey pipeline between Cuvilly, Dierrey and Voisines (France) Reinforcement of the French network from South to North on the Arc de Dierrey pipeline between Cuvilly, Dierrey and Voisines on a distance of 308 km (onshore).	part of 50bn PCIs	part of 50bn PCIs
FR	Energy	Courseulles-sur-mer 450 MW off-shore wind park	1 800m	tbd
FR	Energy	Fécamp 498 MW off-shore wind park	2 000m	tbd
FR	Energy	Saint-Nazaire 480 MW off-shore wind park	2 000m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
FR	Energy	WINFLO (WT with innovative design for floating lightweight offshore) 1 MW off-shore wind park	35m	tbd
FR	Energy	Smart metering systems roll out in France's electricity sector Wide scale roll out of smart metering systems in France's electricity sector (roll out of approx. 33.2 million meters)	4 500m	2 250m
FR	Energy	Smart metering systems roll out in France's gas sector Wide scale roll out of smart metering systems in France's gas sector (roll out of approx 11 million meters)	1 100m	550m
FR	Energy	Projet SWAC (Sea Water Air Conditioning) nord	> 50m	tbd
FR, UK	Energy	1.7. Cluster France-United Kingdom interconnections, including one or more of the following PCIs: 1.7.3. France - United Kingdom interconnection between Coquelles (FR) and Folkestone (UK) [currently known as the ElecLink project] 1.7.3.: A new 51 km 320 kV DC electricity interconnector with a capacity of 1000 MW between Coquelles and Folkestone, via the Channel Tunnel (onshore and offshore).	part of 50bn PCIs	part of 50bn PCIs
GR	Energy	6.9 Cluster LNG terminal in Greece, including one of the following PCIs: 6.9.1 Independent Natural Gas System LNG Greece 6.9.1.: New offshore LNG FSRU near Alexandroupolis (mooring position 17.6 km) and a system of subsea and onshore pipeline with a length of 29 km (4 km onshore and 25 km offshore), with a daily capacity of 16.8 MCM/day.	part of 50bn PCIs	part of 50bn PCIs
GR	Energy	6.9.2 Aegean LNG import terminal 6.9.2.: New floating LNG terminal in the Northern Greek region of Macedonia in the Bay of Kavala, with an annual send-out capacity of 3-5 BCM/year, a LNG storage capacity of 170.000 CM LNG).	part of 50bn PCIs	part of 50bn PCIs
GR	Energy	Smart metering systems roll out in Greece's electricity sector Wide scale roll out of smart metering systems in Greece's electricity sector (roll out of approx 5.6 million meters)	1 733m	867m
GR	Energy	Upgrade of the electrical power transmission system through interconnection of Cyclades Islands with the Mainland Grid	> 75m	tbd
GR	Energy	Pilot telemetering system	> 75m	tbd
GR	Energy	Development and modernisation of electrical power transmission and distribution through the interconnection of Crete with Mainland Grid	> 75m	tbd
HR, HU, SI	Energy	3.9. Cluster Croatia – Hungary - Slovenia between Žerjavenec /Heviz and Cirkovce including the following PCIs: 3.9.1. Interconnection between Žerjavenec (HR)/Heviz (HU) and Cirkovce (SI) 3.9.1.: The existing substation of Cirkovce (SI) will be connected to one circuit of the existing Heviz (HU)-Zerjavinec (HR) double circuit 400kV OHL by erecting a new AC 80 km double circuit 400 kV OHL with a capacity of 2x1330 MVA in Slovenia. The project will result in two new cross-border circuits: Heviz (HU) - Cirkovce (SI) and Cirkovce (SI) - Žerjavenec (HR) (onshore).	part of 50bn PCIs	part of 50bn PCIs
HU	Energy	6.13 Cluster Romania – Hungary – Austria transmission corridor, including the following PCIs: 6.13.1 Városföld-Ercsi– Győr pipeline + enlargement of Városföld Compressor station + modification of central odorization New onshore pipelines: - 210 km of pipeline between Városföld-Ercsi and Győr (HU) and the enlargement of Városföld Compressor station with a power of 5.7 MW; - 6 km of pipeline between Ercsi and Százhalombatta and an increase of the power of the compressor station with 52 MW; - 188 km of pipeline between Győr, Mosonmagyaróvár and the HU/AT border and an increase of the power of the compressor station with 5.7 MW. The daily capacity of the pipelines will be of 4.55-31.2 MCM/day.	part of 50bn PCIs	part of 50bn PCIs
HU	Energy	Establishment of heat cooperation Csepel-Kispest-Kelenföld (South Budapest)	51m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
HU, RO	Energy	6.14 PCI Romanian – Hungarian reverse flow at Csanádpalota or Algyő (HU) New onshore pipeline of 6 km and with a daily capacity of 4.55 MCM/day. The power of the compressor station located in either Algyő or Csanádpalota will be of 17.1 MW.	part of 50bn PCIs	part of 50bn PCIs
HU, SK	Energy	6.3 PCI Slovakia – Hungary Gas Interconnection between Vel'ké Zlievce (SK) – Balassagyarmat border (SK/HU) - Vecsés (HU) New onshore pipeline with a length of 115 km and a daily capacity of 11.375 MCM/day in the direction SK-HU and 4.55 MCM/day in the direction HU-SK. The power of the compressor station(s) is of 2 x 3.5 MW.	part of 50bn PCIs	part of 50bn PCIs
IE	Energy	Smart metering systems roll out in the Ireland's electricity and gas sector Wide scale roll out of smart metering systems in Ireland's electricity and gas sector (roll out of approx 2.2 million electricity and 0.6 million gas meters)	1 040m	624m
IE, UK	Energy	5.1 Cluster to allow bidirectional flows from Northern Ireland to Great Britain and Ireland and also from Ireland to United Kingdom including the following PCIs: 5.1.2 Upgrade of the SNIP (Scotland to Northern Ireland) pipeline to accommodate physical reverse flow between Ballylumford and Twynholm 5.1.2.: Upgrading of the Scotland to Northern Ireland pipeline to accommodate physical reverse low between Ballylumford and Twynholm. The upgrade involves 3 components: install compression, reversal of a metering stream and flow control and removing upstream gas odourisation equipment and installing at a downstream point so that the gas in the pipeline will not be odourised in future. The planned capacity is 132 GWh/d.	part of 50bn PCIs	part of 50bn PCIs
IE, UK	Energy	10.1. North Atlantic Green Zone Project (Ireland, UK): Lower wind curtailment by implementing communication infrastructure, enhance grid control and establishing (cross-border) protocols for Demand Side Management A major cross border network infrastructure project delivering a 'smart grid'. This project comprising intelligent distribution networks with increased cross-border capability, overlaid with high speed communications, enabling operational excellence and leveraging the involvement of all users will be the blueprint for future network deployment on the island of Ireland, and across Europe.	part of 50bn PCIs	part of 50bn PCIs
IE, UK	Energy	2.13. Cluster Ireland – United Kingdom (Northern Ireland) interconnections, including one or more following Projects of Common Interest: 2.13.1. Ireland – United Kingdom interconnection between Woodland (IE) and Turleenan (UK – Northern Ireland) 2.13.1.: A new 400 kV AC single circuit (OHL) of 140 km and with a capacity of 1,500 MVA between Turleenan 400/275 kV in Northern Ireland (UK) to Woodland 400/220 kV (IE) (onshore).	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	3.20. Cluster Italy – Slovenia between West Udine and Okroglo including the following PCIs: 3.20.2. Internal line between West Udine and Redipuglia (IT) 3.20.2.: New 40 km 400kV AC double circuit OHL with a capacity of 1.500-3.000 MVA between the existing substations of West Udine and Redipuglia, providing in and out connection to the future 400 kV substation of South Udine (onshore).	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	Advanced CSP technology project in Sicily 110 MW Advanced CSP technology	500m	tbd
IT	Energy	Mazara Solar 50MW Solar Thermodynamic installation, central tower, superheated steam	260m	tbd
IT	Energy	Smart metering systems roll out in Italy's gas sector Wide scale roll out of smart metering systems in Italy's gas sector (roll out of approx. 13.3 million meters)	2 664m	1 998m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
IT	Energy	2.5. Cluster France - Italy between Grande Ile and Piosasco, including the following PCIs: 2.5.2. Internal line between Trino and Lacchiarella (IT) 2.5.2.: A new 400kV AC double circuit (OHL) of 95 km and with a capacity of 3000 MVA between the existing 400kV substations of Trino and Lacchiarella in North West Italy area (onshore). Restructuring works of local HV network associated to the line Trino – Lacchiarella are planned to be realized after the 400 kV line.	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	3.19.Cluster Italy - Montenegro between Villanova and Lastva including the following PCIs: 3.19.1. Interconnection between Villanova (IT) and Lastva (ME) 3.19.1.: New HVDC interconnection line with a capacity of 1000 MW between Italy and Montenegro via 375 km of 500 kV DC subsea cable and converter stations at both ending points in Villanova (IT) and Lastva (ME) (offshore).	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	3.25. PCI battery storage systems in Central South Italy Installation of 250 MW of storage systems (Batteries) on critical 150 kV transmission network in South Italy. Batteries are characterized by removable, modular and flexible installations; these characteristics allow installations in a wide variety of sites and the possible replacement depending on the needs that could arise in the medium / long term. Permitting has already started for the first experimental stage concerning 35 MW, while the remaining part of the project is under pre-feasibility studies.	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	5.11 PCI Reverse flow interconnection between Italy and Switzerland at Passo Gries interconnection point Reverse flow at Passo Gries interconnection point on a pipeline section of 450 km between Italy and Switzerland, that will determine a daily capacity of 5 MCM/day in a first phase (from 1/1/2016) and that of 38 MCM/day in a second phase (from 1/1/2017). The power of the compressor station(s) is 95 MW.	part of 50bn PCIs	part of 50bn PCIs
IT	Energy	Biofuels	> 50m	tbd
IT	Energy	Environmental technologies for steel manufacturing (Piombino)	> 50m	tbd
LT	Energy	8.2 Cluster infrastructure upgrade in the Eastern Baltic Sea region, including the following PCIs: 8.2.3 Capacity enhancement of Klaipeda-Kiemenai pipeline in Lithuania 8.2.3.: Upgrade of onshore pipeline with a daily capacity of 6 (capacity enhanced by – 5.5) MCM/day on a distance of 110 km.	part of 50bn PCIs	part of 50bn PCIs
LT	Energy	Smart metering systems roll out in Lithuania's electricity sector Wide scale roll out of smart metering systems in Lithuania's electricity sector (roll out of approx. 1.6 million meters)	254m	127m
LT	Energy	Gas transmission pipeline Klaipeda -Kuršėnai construction of the second thread (the main gas pipeline Klaipeda - Kiemenai capacity)	> 50m	tbd
LT	Energy	Kaunas city district heating production agricultural modernization , installation / modernization of local and renewable energy sources using combined heat and power plants	> 50m	tbd
LT	Energy	Vilnius city district heating production agricultural modernization , installation / modernization of local and renewable energy sources using combined heat and power plants	> 50m	tbd
LT, PL	Energy	4.5. Cluster Lithuania – Poland between Alytus (LT) and Elk (PL) including the following PCIs: 4.5.1. LT part of interconnection between Alytus (LT) and LT/PL border 4.5.1.: 400 kV AC double circuit OHL on 51 km and with a capacity of 2x1870 MVA between Alytus and PL-LT border (onshore), with construction of Back-to-Back converter station near Alytus (2x500 MW capacity).	part of 50bn PCIs	part of 50bn PCIs
LU	Energy	Smart metering systems roll out in Luxembourg's electricity sector Wide scale roll out of smart metering systems in Luxembourg's electricity sector (roll out of approx. 0.25 million meters)	35m	26m
LU	Energy	Smart metering systems roll out in Luxembourg's gas sector Wide scale roll out of smart metering systems in Luxembourg's gas sector (roll out of approx. 0.07 million meters)	12m	6m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
LV	Energy	Smart metering systems roll out in Latvia's electricity sector Partial roll out of smart metering systems in Latvia's electricity sector (roll out of approx. 0.25 million meters)	76m	76m
MT	Energy	PCI Connection of Malta to the European Gas network. New pipeline of 150 km from an offshore Floating Storage and Regasification Unit/FSRU (MT) to Sicily (IT) 4.4 MCM/day and 12 km from FSRU to Delimara (MT) with a daily capacity of 1.1 MCM/day.	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	5.15 Cluster implementing gas compressor optimisation in the Netherlands including the following PCI's: 5.15.1 Emden (from Norway to the Netherlands) Optimisation of gas compressor stations in Emden, Winterswijk/Zevenaar, Bocholtz, 'sGravenvoeren, Hilvarenbeek (NL) with a power of 540 MW (onshore).	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	5.15.2 Winterswijk/Zevenaar (from the Netherlands to Germany) Optimisation of gas compressor stations in Emden, Winterswijk/Zevenaar, Bocholtz, 'sGravenvoeren, Hilvarenbeek (NL) with a power of 540 MW (onshore).	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	5.15.3 Bocholtz (from the Netherlands to Germany) Optimisation of gas compressor stations in Emden, Winterswijk/Zevenaar, Bocholtz, 'sGravenvoeren, Hilvarenbeek (NL) with a power of 540 MW (onshore).	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	5.15.4 's Gravenvoeren (from the Netherlands to Belgium) Optimisation of gas compressor stations in Emden, Winterswijk/Zevenaar, Bocholtz, 'sGravenvoeren, Hilvarenbeek (NL) with a power of 540 MW (onshore).	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	5.15.5 Hilvarenbeek (from the Netherlands to Belgium) Optimisation of gas compressor stations in Emden, Winterswijk/Zevenaar, Bocholtz, 'sGravenvoeren, Hilvarenbeek (NL) with a power of 540 MW (onshore).	part of 50bn PCI's	part of 50bn PCI's
NL	Energy	Gemini 600 MW off-shore wind park	2 800m	tbd
NL	Energy	Smart metering systems roll out in Netherland's gas and electricity sector Wide scale roll out of smart metering systems in Netherland's electricity and gas sector (roll out of approx. 15.2 million electricity and 6.1 million gas meters)	3 340m	1 670m
NL	Energy	Borssele 1 (2015) 700 MW off-shore wind park	tbd	tbd
NL	Energy	Borssele 2 (2016) 700 MW off-shore wind park	tbd	tbd
PL	Energy	8.7 PCI Capacity extension of Swinoujscie LNG terminal in Poland Extension of onshore LNG terminal with an annual send-out capacity of 7.5 BCM/year and a total LNG storage capacity of 3 x 160.000 CM LNG, with the construction of the third storage tank. In the first stage of the project (currently under construction), the reloading on trucks is provided (two loading bays with capacity of 95.000 t/a) while reloading for vessels is also considered. The facility is designated to receive Carriers up to 216.000 CM (Q-flex vessels).	part of 50bn PCI's	part of 50bn PCI's
PL	Energy	8.8 PCI Upgrade of entry points Lwówek and Włocławek of Yamal-Europe pipeline in Poland Upgrade of the capacity of the entry points in Lwówek and Włocławek on the Yamal-Europe pipeline (onshore, length NA) from 6.46MCM/day up to 9.8 MCM/day (Lwówek) and from 8.38 MCM/day up to 25.2 MCM/day (Włocławek). Therefore, the total daily capacity will be of 35 MCM/day.	part of 50bn PCI's	part of 50bn PCI's
PL	Energy	150 MW off-shore wind park	tbd	tbd
PL	Energy	Smart metering systems roll out in Poland's electricity sector Wide scale roll out of smart metering systems in Poland's electricity sector (roll out of approx 13.2 million meters)	2 200m	1 100m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PL	Energy	6.1 Cluster Czech – Polish interconnection upgrade (Stork II) and related internal reinforcements in Western Poland, including the following PCIs: 6.1.2 Lwówek-Odolanów pipeline 6.1.2. - 6.1.11.: Upgrade of onshore pipelines in Greater Poland, Silesia, Subcarpathian regions (PL). Closest cities: Poznań, Katowice, Kraków, Rzeszów Total length of 739 km, namely: Lwówek-Odolanów pipeline – 162 km; Czeszów-Wierzchowice pipeline – 13 km; Czeszów-Kielczów pipeline – 32 km;	part of 50bn PCIs	part of 50bn PCIs
PL	Energy	6.1.4 Czeszów-Wierzchowice pipeline 6.1.2. - 6.1.11.: Upgrade of onshore pipelines in Greater Poland, Silesia, Subcarpathian regions (PL). Closest cities: Poznań, Katowice, Kraków, Rzeszów Total length of 739 km, namely: Lwówek-Odolanów pipeline – 162 km; Czeszów-Wierzchowice pipeline – 13 km; Czeszów-Kielczów pipeline – 32 km;	part of 50bn PCIs	part of 50bn PCIs
PL	Energy	6.1.5 Czeszów-Kielczów pipeline 6.1.2. - 6.1.11.: Upgrade of onshore pipelines in Greater Poland, Silesia, Subcarpathian regions (PL). Closest cities: Poznań, Katowice, Kraków, Rzeszów Total length of 739 km, namely: Lwówek-Odolanów pipeline – 162 km; Czeszów-Wierzchowice pipeline – 13 km; Czeszów-Kielczów pipeline – 32 km;	part of 50bn PCIs	part of 50bn PCIs
PL	Energy	6.2 Cluster Poland – Slovakia interconnection and related internal reinforcements in Eastern Poland, including the following PCIs: 6.2.2 Rembelszczyzna compressor station 6.2.2.-6.2.9.: Upgrade of onshore pipelines in the Masovian, Subcarpathian regions (PL). Closest cities: Warsaw, Lublin, Rzeszów Total length of 409 km and namely: Hermanowice-Strachocina pipeline – 72 km. The power of the compressor station in Rembelszczyzna is 18.3 MW.	part of 50bn PCIs	part of 50bn PCIs
PL	Energy	6.2.9 Hermanowice-Strachocina pipeline 6.2.2.-6.2.9.: Upgrade of onshore pipelines in the Masovian, Subcarpathian regions (PL). Closest cities: Warsaw, Lublin, Rzeszów Total length of 409 km and namely: Hermanowice-Strachocina pipeline – 72 km. The power of the compressor station in Rembelszczyzna is 18.3 MW.	part of 50bn PCIs	part of 50bn PCIs
PL	Energy	EW Baltica-1 1200 MW off-shore wind park	tbd	tbd
PL	Energy	EW Baltica-2 1200 MW off-shore wind park	tbd	tbd
PL	Energy	Construction of 400 kV power line Dunowo - Żydowo Kierzkowo - Piła Krzewina with a substation expansion	204m	tbd
PL	Energy	Construction of 400 kV power line Krajnik - Barczyna with a substation construction/expansion/modernisation	117m	tbd
PL	Energy	Construction of 400 kV power line Mikułowa - Świebodzice with a substation expansion	121m	tbd
PL	Energy	Construction of 400 kV power line Ostrołęka - Stanisławów with a substation expansion	110m	tbd
PL	Energy	Construction and modernisation of a gas pipeline network: Construction and modernisation of gas pipeline Tworzeń - Łagiewniki in the area of Dąbrowa Górnicza, Będzin, Piekary Śląskie and Bytom, of the total length of 39.2 km. Construction of two metering stations	40m	tbd
PL	Energy	Construction of underground gas storage in Central Poland with interconnecting gas pipeline	573m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PL	Energy	Construction of 2 x 400 + 220 kV power lines Byczyna - Podborze with a substation expansion	79m	tbd
PL	Energy	Construction of 400 kV power line Chełm - Lublin Systemowa with a substation expansion	99m	tbd
PL	Energy	Construction of 400 kV power line Czarna - Pasikowice with a substation expansion	84m	tbd
PL	Energy	Construction of 400 kV power line Mikułowa - Czarna with a substation construction/modernisation	122m	tbd
PL	Energy	Construction of 400 kV power line Piła Krzewina - Plewiska with a substation expansion	139m	tbd
PL	Energy	Construction of the gas pipeline network: Construction of underwater gas pipeline Kosakowo - Gdańsk, with gas nodes and handling terminal	151m	tbd
PL	Energy	Construction of the gas pipeline network: Construction of gas pipeline Kościerzyna - Olsztyn	305m	tbd
PL	Energy	Construction of the gas pipeline network: Construction of gas pipeline Kosakowo - Bydgoszcz	tbd	tbd
PL	Energy	Construction of 400/200 kV station with connection of 220 kV lines: Kopanina - Liskovec, Bujaków - Liskovec, Bieruń - Komorowice, Czeczott - Moszczenica, and 400 kV power line Nosovice - Wielopole	74m	tbd
PL	Energy	Czeszów - Kielczów gas pipeline	60m	tbd
PL	Energy	Hermanowice - Strachocina gas pipeline	83m	tbd
PL	Energy	Leśniewice - Łódź gas pipeline	71m	tbd
PL	Energy	Lwówek - Odolanów gas pipeline	238m	tbd
PL	Energy	Mory - Wola Karczewska - Rembelszczyzna gas pipeline, sections: Mory - Wola Karczewska and Rembelszczyzna - Mory	145m	tbd
PL	Energy	Podgórska Wola - Tworzeń gas pipeline	300m	tbd
PL	Energy	Strachocina - Podgórska Wola gas pipeline	144m	tbd
PL	Energy	Tworóg - Tworzeń gas pipeline	105m	tbd
PL	Energy	Zdzieszowice - Wrocław gas pipeline	243m	tbd
PL	Energy	Zdzieszowice - Kędzierzyn Koźle - Tworóg gas pipeline, sections: Zdzieszowice - Kędzierzyn Koźle and Tworóg - Kędzierzyn Koźle	123m	tbd
PL	Energy	Comprehensive program of low emission elimination within the area of śląsko-dąbrowska conurbation	845m	tbd
PL	Energy	Increasing the storage capacity: Expanding of underground gas storage KPMG Mogilno; increase of the storage capacity from 570 mln m3 to 800 mln m3 (increase by 230 mln m3)	141m	tbd
PL	Energy	Increasing the storage capacity: Expanding of underground gas storage PMG Wierzchowice increase of the storage capacity from 1200 mln m3 to 2000 mln m3 (increase by 800 mln m3)	141m	tbd
PL	Energy	Thermal modernisation of buildings (including OZE utilisation)	113m	tbd
PT	Energy	Solar PV project 100MW solar PV	100m	tbd
PT	Energy	2.16. Cluster Portugal capacity increase at PT/ES border including the following PCIs: 2.16.2. Internal line between Pedralva and Vila Fria B 2.16.2.: New 55 km double circuit Pedralva - Vila Fria B 400 kV OHL (initially one circuit installed), with a capacity of 1630/1860 MVA per circuit correspondent to summer/winter (onshore).	part of 50bn PCIs	part of 50bn PCIs
PT	Energy	2.16.3. Internal line between Frades B, Ribeira de Pena and Feira 2.16.3.: New 160 km double circuit OHL 400 kV Frades B – Ribeira de Pena – Fridão – Feira, along with the new 400/60 kV substation of R. Pena and the switching station of Fridão. Capacity is 2x (1630/ 1860 MVA) (summer/winter) between Frades B and R. Pena, and 2080/2370 MVA (summer/winter) along R. Pena – Fridão – Feira (onshore). On a large extension this line shares towers with the new 220 kV line V.P.Aguiar - Carrapatelo - Estarreja.	part of 50bn PCIs	part of 50bn PCIs
PT	Energy	Hydropower plant of Calheta (Region of Madeira)	> 50m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PT, ES	Energy	2.17. PCI Portugal - Spain interconnection between Vila Fria - Vila do Conde – Recarei (PT) and Beariz - Fontefría (ES) New 400 kV AC double circuit (OHL) of 162 km (112 km in Portugal and 41 km in Spain) between Beariz - Fontefría (ES) and Vila Fria – Vila do Conde – Recarei (PT), with only one circuit being installed on the Fontefría – Vila do Conde section (onshore). New 400 kV substations Fontefría, Boboras, Vila Fria B and Vila do Conde.	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	3.22. Cluster Romania – Serbia between Resita and Pancevo including the following PCI's: 3.22.1. Interconnection between Resita (RO) and Pancevo (RS) 3.22.1.: New 400 kV AC double circuit OHL with a length of 131 km (63 km on RO side and 68 km on RS side) and with a capacity of 2x1380 MVA between substations Resita and Pancevo (onshore).	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	6.15 Cluster Integration of the transit and transmission system and implementation of reverse flow in Romania, including the following PCI's: 6.15.1 Integration of the Romanian transit and transmission system Works within GMS Isaccea and the upgrade (amplification) of Compressor Station Silistea. The project also implies the construction of a connection pipeline between the DN 1000 Pipeline (Transit 1 Bulgaria) and the NTS with a daily capacity of 14 MCM/day and with the possibility to meter the natural gas volumes transmitted in both directions.	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	6.15.2 Reverse flow at Isaccea	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	6.20.4 Depomures storage in Romania 6.20.4.: Extension of storage facility in depleted field in Depomures, with the following technical characteristics: Working Gas Volume 600 (300 existing + 300 new) MCM; Withdraw capacity 6 (2 existing + 4 new) MCM/day; Injection capacity 6 (2 existing + 4 new) MCM/day; Cycling rate 1 times/year.	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	Smart metering systems roll out in Romania's electricity sector Wide scale roll out of smart metering systems in Romania's electricity sector (roll out of approx. 7.2 million meters)	712m	356m
RO	Energy	3.22.2. Internal line between Portile de Fier and Resita (RO) 3.22.2.: New 400 kV AC OHL of 116 km and with a capacity of 1380 MVA between existing substation 400 kV Portile de Fier and new 400 kV substation Resita, extension with one bay of 400 kV substation Portile de Fier, new 400 kV substation Resita, with 400/220 kV and 400/110 kV transformers, as extension of the existing 220/110 kV substation.	part of 50bn PCI's	part of 50bn PCI's
RO	Energy	Efficient Energy use in Bucharest	> 75m	tbd
RO	Energy	District heating Bucharest Bucharest	> 50m	tbd
SE	Energy	8.6 PCI Gothenburg LNG terminal in Sweden New onshore LNG terminal with an annual send-out capacity of 0.5 BCM/year and a LNG storage capacity of 20.000 CM LNG. The maximum ship size is of 30.000 CM LNG.	part of 50bn PCI's	part of 50bn PCI's
SE	Energy	Blekinge 2500 MW off-shore wind park	tbd	tbd
SE	Energy	Sodra Midsjobanken 2000 MW off-shore wind park	2 200m	tbd
SK	Energy	3.16. Cluster Hungary - Slovakia between Gónyö and Gabčíkovo including the following PCI's: 3.16.2. Internal line between Velký Ďur and Gabčíkovo (SK) 3.16.2.: Erection of the new 2x400kV AC double circuit line of 93 km and with a total capacity of 2772 MVA between substations Velký Ďur and Gabčíkovo and the necessary extension of the substation Velký Ďur (onshore).	part of 50bn PCI's	part of 50bn PCI's
SK	Energy	Smart metering systems roll out in Slovakia's electricity sector Partial roll out of smart metering systems in Slovakia's electricity sector (roll out of approx. 0.6 million meters)	69m	35m

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
UK	Energy	5.2 PCI Twinning of Southwest Scotland onshore system between Cluden and Brighthouse Bay (United Kingdom) Reinforcing the 50 km single section of the SWSOS transmission system (onshore). The planned capacity is 375 GWh/d.	part of 50bn PCIs	part of 50bn PCIs
UK	Energy	Aberdeen Bay 77 MW off-shore wind park	300m	tbd
UK	Energy	Blyth Demonstration site- NAREC 99.9 MW off-shore wind park	400m	tbd
UK	Energy	East Anglia Offshore Wind 1 (EAOW 1) 1200 MW off-shore wind park	tbd	tbd
UK	Energy	First Flight Wind 400 MW off-shore wind park	tbd	tbd
UK	Energy	Firth of Forth Phase 1 Alpha 525 MW off-shore wind park	tbd	tbd
UK	Energy	Firth of Forth Phase 1 Bravo 525 MW off-shore wind park	tbd	tbd
UK	Energy	Hywind 2 - Floating demonstration project 30 MW off-shore wind park	140m	tbd
UK	Energy	Inch Cape 784 MW off-shore wind park	tbd	tbd
UK	Energy	Kentish Flats 2 49.5 MW off-shore wind park	180m	tbd
UK	Energy	Moray Firth Phase 1 504 MW off-shore wind park	tbd	tbd
UK	Energy	Near na Gaoithe 450 MW off-shore wind park	1 700m	tbd
UK	Energy	Race Bank 580 MW off-shore wind park	tbd	tbd
UK	Energy	700 MW off-shore wind park	tbd	tbd
UK	Energy	Smart metering systems roll out in UK's electricity and gas sector Wide scale roll out of smart metering systems in UK's electricity and gas sector (roll out of approx. 57.8 million electricity and 25.5 million gas meters)	9 295m	4 648m
UK	Energy	Beatrice 2 664 MW off-shore wind park	3 000m	tbd
UK	Energy	Burbo Bank Extension 256 MW off-shore wind park	1 000m	tbd
UK	Energy	Dudgeon East 402 MW off-shore wind park	1 890m	tbd
UK	Energy	Hornsea Heron Wind 498 MW off-shore wind park	tbd	tbd
UK	Energy	Walney 3 (extension) 660 MW off-shore wind park	2 800m	tbd
UK	Energy	Energy Efficiency in housing	> 50m	tbd
UK	Energy	Marine energy deployment	> 50m	tbd
UK	Energy	Cardiff Capital Region Metro	> 50m	tbd
Macro Region	Transport	Clean mobility in the Danube region	300m	200m
Macro Region	Transport	Shipping and port-infrastructure in Baltic Sea Region	20m	5m
Macro Region	Transport	Finalising the development and early deployment of e-Navigation in the Baltic Sea	15m	tbd
AT	Transport	Wien Inzersdorf (AT) "Cargo-Center Wien": Planning and Construction of a new Rail-Road Terminal (Cargo-Center Wien) (Phase 1) in Wien-Inzersdorf, Relocation of RRT Wien Nordwestbahnhof	300m	tbd
AT	Transport	Wels (container terminal) (AT) "Extension of container terminal Wels Vbf": Main objectives: Planning, design and construction of terminal Wels incl. train formation yard. Measures included: - 2 new transshipment tracks - new module of gantry crane - reconstruction of train formation yard	27m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
AT	Transport	Lower Austria (AT) A5 "Nord Autobahn" motorway: section Schrick - Poysbrunn, bypass Drasenhofen, section Poysbrunn - AT/CZ border	375m	tbd
AT	Transport	AT S1 Süßenbrunn - Großenzersdorf Core Network S1 Construction Süßenbrunn - Großenzersdorf S1 Wien Motorway Ring, construction of section Großenzersdorf- Süßenbrunn, 10 km	300m	tbd
AT	Transport	AT A5 Schrick - Poysbrunn Core Network A5 Construction Schrick - Poysbrunn and Drasenhofen Bypass Construction of A5 Wien - CZ border (-Brno) motorway, Schrick-Poysbrunn section, 25km, 2x2 lanes plus Drasenhofen Bypass 5 km	374m	tbd
BE	Transport	Antwerp Increase in the capacity of access to the port of Antwerp	224m	tbd
BE	Transport	Port of Antwerp New lock of Deurganckdok in Port of Antwerp	382m	tbd
BE	Transport	Port of Antwerp Renovation of the Royers lock in port of Antwerp	140m	tbd
BE	Transport	Wijnegem-Antwerpen/ Interoperability Upgrade of the section Wijnegem-Antwerpen on the Albert Canal	100m	tbd
BE	Transport	Canal Albert / Interoperability Lifting of bridges over the Canal Albert	234m	tbd
BE	Transport	Schelde basin/ Cross Border 'Seine-Schelde-East' project	330m	tbd
BE, NL	Transport	Canal Gent-Terneuzen/ Cross-Border New lock in Terneuzen	930m	tbd
BG	Transport	Blagoevgrad - Sandanski Core Network A3 Struma Motorway Lot 3 Infrastructure works for construction of 65 km A3 motorway section, incl. 17.35 km tunnels	850m	tbd
CY	Transport	Lemesos-Paphos Motorway - Lemesos Port Core Network Link road connecting Lemesos-Paphos Motorway with the Lemesos Port	100m	tbd
CY	Transport	Lefkosia Core Network Lefkosia South Orbital Motorway	220m	tbd
CZ	Transport	Přerov - Lipník Motorway D1 construction	223m	tbd
CZ	Transport	Říkovice - Přerov Motorway D1 construction	313m	tbd
CZ	Transport	D1 Mirosovice - Kyvalka Core network	543m	tbd
CZ	Transport	D1 Přerov – Lipník nad Bečvou	> 75m	tbd
CZ	Transport	D1 Modernisation – section 12, EXIT 90 Humpolec – EXIT 104 Větrný Jeníkov	> 75m	tbd
CZ	Transport	D1 modernisation - section 02, EXIT 21 Mirošovice - EXIT 29 Hvězdovice	> 75m	tbd
CZ	Transport	D1 Říkovice - Přerov	> 75m	tbd
CZ	Transport	D8 Bilinka - Řehlovice Core Network DB construction D805A-F Lovosice - Řehlovice main objectives: missing segment; measures included: construction of segment(16,4km)	157m	tbd
CZ	Transport	R1 Březiněves - Satalice Core network Ring road around Praha: A7 R1 520 Březiněves - Satalice 13,7 km main objectives: Ring road around Praha: reduce traffic from parts of Praha that suffer serious adverse impacts of traffic; measures: upgrading	420m	tbd
CZ	Transport	D3 Bošilec – Ševětín	> 75m	tbd
CZ	Transport	D3 Ševětín - Borek	> 75m	tbd
CZ	Transport	I/11 Nebory – Oldřichovice - Bystřice	> 75m	tbd
CZ	Transport	R49 Hulín - Fryšták	> 75m	tbd
CZ	Transport	D11 Hradec Králové - Jaroměř	> 75m	tbd
CZ	Transport	R48 Frýdek Místek, bypass including connection to R56	> 75m	tbd
CZ	Transport	Modernisation of railway Veselí n.L.-Tábor-II. Part, Veselí n.L.-Doubí u Tábora, 2. phase Soběslav - Doubí	> 75m	tbd
CZ	Transport	Shipping level Přelouč II	> 75m	tbd
CZ	Transport	I/42 Brno city bypass Žabovřeská I.	> 75m	tbd
CZ	Transport	Modernisation of rolling stock	> 75m	tbd
CZ	Transport	R48 Rybí - Rychaltice	> 75m	tbd
CZ	Transport	Modernisation of railway Sodoměřice - Votice	> 75m	tbd
CZ	Transport	Modernisation of section Praha-Radotín - Praha-Vršovice	> 75m	tbd
CZ	Transport	Optimisation of railway Beroun (included) - Králův Dvůr	> 75m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
CZ	Transport	Optimisation of railway Praha Hostivař - Praha main station, II. Part	> 75m	tbd
CZ	Transport	R35 Časy - Ostrov	> 75m	tbd
CZ	Transport	R35 Opatovice – Časy	> 75m	tbd
CZ	Transport	Railway electrification including pre-electrification adjustments Brno - Station Brno	> 75m	tbd
CZ	Transport	Optimisation railway section Praha Smíchov (excluded) - Černošice (excluded)	> 75m	tbd
CZ	Transport	I/68 Třanovice - Nebory	> 75m	tbd
CZ	Transport	modernisation and electrification of railway Otrokovice - Vizovice	> 75m	tbd
CZ	Transport	I/16 Slaný - Velvary	> 75m	tbd
CZ	Transport	R6 Nové Strašecí – Řevničov - Krupá	> 75m	tbd
CZ	Transport	Tramway line Chodovská-Háje	> 75m	tbd
CZ	Transport	Tramway line Podbaba-Suchdol	> 75m	tbd
CZ	Transport	Optimisation of railway section Praha main station - Praha Smíchov	> 75m	tbd
CZ	Transport	Reconstruction of railway station Přerov 2. construction	> 75m	tbd
CZ	Transport	Railway nod Plzeň, 2. construction - reconstruction of station, including bridges Mikulášská	> 75m	tbd
CZ	Transport	R6 Lubenec, bypass, I. phase	> 75m	tbd
CZ	Transport	Optimisation of railway Ostrava-Kunčice – Frýdek-Místek - Č. Těšín, including pre-electrification adjustments and Optimisation of railway station Č. Těšín, 2. part	> 75m	tbd
CZ	Transport	D3 Úsilné – Třebonín	> 75m	tbd
CZ	Transport	modernisation of railway Nemanice I - Ševětín	> 75m	tbd
CZ	Transport	Optimisation of railway Lysá nad Labem - Praha Vysočany, 2. construction	> 75m	tbd
CZ	Transport	Enhancement of the railway capacity Pardubice – Hradec Králové, completion	> 75m	tbd
CZ	Transport	R3 Třebonín – state border	> 75m	tbd
CZ	Transport	Construction of metro line D	> 75m	tbd
CZ	Transport	Enhancement of the railway capacity Praha-Libeň – Praha-Malešice – Praha-Hostivař / Praha-Vršovice	> 75m	tbd
CZ	Transport	I/35 Lešná - Palačov	> 75m	tbd
CZ	Transport	R1 511 Běchovice – D1 including enhanced capacity of R1 510 Běchovice - Satalice	> 75m	tbd
CZ	Transport	Optimisation of railway Černošice (included) - Beroun (excluded)	> 75m	tbd
CZ	Transport	Optimisation of railway Kolín – Všetaty – Děčín	> 75m	tbd
CZ	Transport	ERTMS system installation on CZ railway network	> 75m	tbd
CZ	Transport	Railway nod Plzeň, 3. construction - trastian slip to domažlice railway line	> 75m	tbd
CZ	Transport	R35 Janov - Opatovec	> 75m	tbd
CZ	Transport	R35 Litomyšl - Janov	> 75m	tbd
CZ	Transport	R35 Ostrov – Vysoké Mýto	> 75m	tbd
CZ	Transport	R35 Vysoké Mýto – Džbánov-Litomyšl	> 75m	tbd
DE	Transport	Berlin node Extension of the rail infrastructure within the Berlin node, including the airport link to BER	6 526m	tbd
DE	Transport	Hamburg node Extension of the rail infrastructure within the Hamburg node, strengthening of the rail connections to the sea port	545m	tbd
DE	Transport	A 1 junction K-Niehl – junction LEV/West, extension to 8 lines including new construction of Leverkusen Rhine bridge	420m	tbd
DE	Transport	A 3 junction K- Mülheim – junction LEV extension to 8 lines	202m	tbd
DE	Transport	A 10 Junction Potsdam – junction Nuthetal extension to 8	130m	tbd
DE	Transport	A 10 between Junction Havelland and junction Pankow Extension to 6 lines	242m	tbd
DE	Transport	Corridor program for alternative fuels on TEN core network corridor North Sea Baltic Measures for introduction of charging infrastructure (H2, electricity) on the North Sea – Baltic corridor	85m	tbd
DE	Transport	Removal of inland waterway bottlenecks and infrastructure development on the Core Network Corridor North Sea Baltic	3 400m	tbd
DE	Transport	Unter- and Außenelbe Inland waterway improvement	250m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
DE	Transport	Westdeutsches Kanalnetz //DEK-Südstrecke//DEK Nordstrecke //Rhein-Herne-K.1 //Wesel-Datteln-K. /Engpassbes/Schleusenreub./Engpassbes /Ausbau/	1 500m	tbd
DE	Transport	Verkehrsprojekt Deutsche Einheit Nr17 Engpassbeseitigung	400m	tbd
DE	Transport	Corridor programme IWW 2 Additional program to support the seamless IWW and sea transport on the Core network corridor NsB	770m	tbd
DE	Transport	Nord-Ostsee-Kanal (Kiel-canal) in Brunsbüttel Neubau einer 5. Schleusenkammer new construction of 5th lock chamber	505m	tbd
DE	Transport	Nord-Ostsee-Kanal (Kiel-canal), Oststrecke Anpassung/Upgrade	265m	tbd
DE	Transport	Hamburg New Kattwyk railbridge	205m	tbd
DE	Transport	Hamburg Anpassung Einfahrt Vorhafen	98m	tbd
DE	Transport	Hamburg Fahrriinnenanpassung für Großcontainerschiffe (14,5m)	199m	tbd
DE	Transport	Hamburg Transport links Burchardkai (planning and construction) / Renovation and redesign of road and rail connections of the container terminal Burchardkai (CTB).	104m	tbd
DE	Transport	Highway Link A 1/B 207 Southern access to Fehmarn Belt fixed link (Fehmarnsund bridge not incl.) / Upgrade of A 1 Oldenburg - Heiligenhafen-Ost	100m	tbd
DE	Transport	(Oldenburg -) Heiligenhafen - Puttgarden (finalised in 2012), upgrade (4 lanes) of B 207 Heiligenhafen - Puttgarden	100m	tbd
DE	Transport	Hamburg A 7 Dreieck Hamburg-Nordwest - Schleswig-Holstein border / Upgrade (6 lanes); partly tunneling for noise protection	211m	tbd
DE	Transport	Hamburg A 7 Dreieck Hamburg-Nordwest - Hamburg-Stellingen / Upgrade (8 lanes); partly tunneling for noise protection	192m	tbd
DE	Transport	Hamburg Channel adjustments on the River Elbe / The planned channel adjustments of the Lower and Outer Elbe is to ensure that modern large container ships with max. drafts of 14.5 m can reach the port.	199m	tbd
DE	Transport	Lehrte Megahub Lehrte / Construction of a hub site for combined transport rail/road comprising six tracks and three gantry cranes	136m	tbd
DE	Transport	Main: Oberrau lock · Infrastructure rehabilitation, Reconstruction of Oberrau lock construction of a new barrage replacing the old one dismantling of the over-aged lock	120m	tbd
DE	Transport	Main-Danube Canal: Kriegenbrunn and Erlangen lock · Infrastructure rehabilitation, Reconstruction of Kriegenbrunn and Erlangen lock construction of a new barrages replacing the old one dismantling of the over-aged lock	210m	tbd
DE	Transport	Berlin / Brandenburg Core Network A 10 Weißensee - Interchange Pankow Extension to 6 lanes	64m	tbd
DE	Transport	Berlin / Brandenburg Core Network Upgrade of the A 10 to 6 lanes between the Berlin/Brandenburg Land border to the three-leg interchange Pankow Construction of a new stretch of motorway including the motorway structures to raise capacity, the rain water drainage systems for safety reasons and the active noise protection systems for environmental improvements. Enlargement of several bridges to accommodate the additional lanes.	27m	tbd
DE	Transport	Brandenburg Core Network A 10 Interchange Potsdam - Interchange Nuthetal Extension to 8 lanes	118m	tbd
DE	Transport	Saxony- Anhalt/Brandenburg - Wittenberge Core Network A 14 Federal State border Saxony- Anhalt/Brandenburg - Wittenberge New construction (4 lanes)	51m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
DE	Transport	Brandenburg/ Mecklenburg-West Pomerania Core Network A 14 Karstädt - Federal State border Brandenburg/ Mecklenburg-West Pomerania New construction (4 lanes)	90m	tbd
DE	Transport	Mecklenburg-West Pomerania / Brandenburg - Ludwigslust Core Network A 14 Federal State border Mecklenburg-West Pomerania / Brandenburg - Ludwigslust New construction (4 lanes)	77m	tbd
DE	Transport	Ludwigslust - Schwerin Core Network A 14 Ludwigslust - interchange Schwerin New construction (4 lanes)	139m	tbd
DE	Transport	Hamburg Core Network Adjustment of gateway offshore terminal (turning radius) Widening of gateway form the Norderelbe into the offshore terminal to meet the requirements of ship size development and to ensure safety and ease of ship traffic.	98m	tbd
DE	Transport	Bremerhaven Core Network Construction of offshore-terminal Construction of a terminal equipped for the transshipment of heavy goods (in particular components of offshore wind turbines).	tbd	tbd
DE, DK	Transport	Fehmarn Belt Fehmarn Belt Fixed Link / A Fehmarn Belt Fixed Link will create a fixed, close and direct connection between Scandinavia and continental Europe.	5 500m	tbd
DK	Transport	Ny Ellebjerg Station Ny Ellebjerg Station / Increase the capacity of Copenhagen central station through development of Ny Ellebjerg station as the new nerve center for train connections between Øresund and København-Ringsted.	47m	tbd
DK	Transport	Greve-Køge Køgebugt Motorway / The construction will expand of the entire stretch between Greve S and Køge from 6 to 8 tracks.	215m	tbd
EE	Transport	Tallinn Airport Estonia Extension of runway and taxi ways	70m	tbd
ES	Transport	Valladolid-Venta de Baños-Burgos HS line Venta de Baños - Burgos/Upgrade	223m	tbd
ES	Transport	Madrid (Atocha-Chamartín) Atocha - Chamartín connection (1st phase) + 3rd and 4rd tracks Atocha - Torrejón de Velasco + Atocha - Chamartín connection (2nd phase) /New connections (passengers)	451m	tbd
ES	Transport	Madrid-Sevilla HS line HS line Madrid - Sevilla/ Upgrade	331m	tbd
ES	Transport	Bilbao Port access Improvement and multimodal connections	703m	tbd
ES	Transport	Algeciras Port Improvement, multimodal connections and extension of motorways of the sea	130m	tbd
ES	Transport	Madrid-Vicálvaro RRT Madrid-Vicálvaro RRT/Renewal of Madrid-Vicálvaro railway station (1st phase)	200m	tbd
ES	Transport	Conventional line Valencia - Vandellos Implementation of standard gauge. Phase I Interventions concerning compliance with Core Network standards on loading gauge	288m	tbd
ES	Transport	Conventional rail line Murcia-Cartagena. Mix traffic Upgrading track to mix gauge and electrification to 25 KV CA Electrification Interventions concerning compliance with Core Network standards on loading gauge	109m	tbd
ES	Transport	Valencia - La Encina Implementation of standard gauge. Phase II Interventions concerning compliance with Core Network standards on track gauge	403m	tbd
ES	Transport	Tarragona - Valencia ERTMS in (Mediterranean Corridor) Development of traffic management system	51m	tbd
ES	Transport	Barcelona Port Upgrading multimodal connections	308m	tbd
ES	Transport	Cartagena Port New rail connection (Escombreras) Resolution of a physical bottleneck Connection to rail network	56m	tbd

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ES	Transport	Sevilla Port Upgrading rail connection and terminal	43m	tbd
ES	Transport	Corridor Ports LNG supply facilities Availability of alternative clean fuels	52m	tbd
ES	Transport	Implementation of new sections of high-speed line for mixed traffic belonging to the Atlantic corridor Madrid-Lisbon	> 75m	tbd
ES	Transport	Improving the route Madrid-Córdoba-Algeciras belonging to the conventional network	82m	tbd
ES	Transport	Implementation of new sections of the railway network in Andalucía for mixed traffic. Sections of Murcia (Pulpí)-Almería, Antequera-Granada, both belonging to the Mediterranean Corridor; and Sevilla-Huelva, which is part of the Basic Network	> 75m	tbd
FI	Transport	Port of Helsinki Passenger terminal to West Harbour with land traffic connections because of substantially increasing transport volumes between Helsinki and Tallinn./	275m	tbd
FI	Transport	Helsinki urban node City Rail Loop to connect Helsinki Airport with rail (1st phase Ring Rail to be completed in 2015). City Rail Loop also improves the connection between the two CNCs that cross in the Helsinki node.	900m	tbd
FI	Transport	Helsinki Urban Node Rail Joker Line 1st phase in a three-phase project to connect east-west urban rail to long-distance rail, Helsinki airport and port. Improves the connection between the two CNCs that cross in the Helsinki node.	300m	tbd
FI	Transport	Helsinki Improvement of the efficiency of Helsinki railway yard	139m	tbd
FI	Transport	Ring Road III Ring Road III, the second phase	150m	tbd
FI	Transport	Hamina-Vaalimaa (Russia border) E18 Hamina-Vaalimaa / The completion of the E18 highway between Hamina and Vaalimaa	660m	tbd
FI	Transport	Helsinki airport Development of Helsinki airport / Finavia is starting a major development programme at Helsinki Airport	900m	tbd
FR	Transport	Janville – Aubencheul-au-Bac Seine-Nord Europe Canal (Seine-Scheld inland waterway network)	4 500m	tbd
FR	Transport	Oise valley Upgrade to European gauge of the Oise between Creil and Compiègne (MAGEO project) (Seine-Scheld inland waterway network)	233m	tbd
FR	Transport	Port of Paris Paris Seine Métropole phase 2 (western part). Development of multimodal platforms.	40m	tbd
FR	Transport	Port of Paris City port of Triel-sur-Seine	24m	tbd
FR	Transport	Port of Paris Extension of the Limay multimodal terminal	30m	tbd
FR	Transport	Port of Paris Multimodal access to platforms of the ports of Paris (including new road link N406)	100m	tbd
FR	Transport	Port of Paris Multimodal access to platforms (including new road link N406)	100m	tbd
FR	Transport	Port of Dunkirk Maritime access adaptation (Cap Port Ouest framework program). Widening of the turning circle between the outer port and the basin called Atlantic.	19m	tbd
FR	Transport	Port of Dunkirk Container berth upgrade (Cap Port Ouest framework program). Development of transshipment to feeder or short-sea services and of inland multimodal transfer to rail and inland waterway services.	75m	tbd
FR	Transport	Port of Dunkirk Bulk terminal revamp (Cap Port Ouest framework program). Development of transshipment operations for bulk material.	17m	tbd

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FR	Transport	Port of Dunkirk LNG bunkering infrastructure. Development of a small-scale LNG supply chain from the port of Dunkirk, not only or primarily for ship bunkering but also, potentially, for other markets such as road or waterway transport, or industry.	98m	tbd
FR	Transport	Port of Calais Calais 2015 project/Creation of a new sea dock north of the existing port facilities to increase the current capacity of the port (Calais Port 2015 development scheme).	800m	tbd
FR	Transport	Marseille node (RRT + port) Mourepiane combined transport terminal	40m	tbd
FR	Transport	Upgrade of Short Sea Shipping terminals	80m	tbd
FR	Transport	Widening of the North Pass	33m	tbd
FR	Transport	Fos combined transport terminal	25m	tbd
FR	Transport	Fos Dock infrastructures	40m	tbd
FR	Transport	Port of Le Havre Third phase of "Port 2000" container terminal	200m	tbd
FR	Transport	Strasbourg North road access to the port	10m	tbd
FR	Transport	Montpellier <--> Nîmes (new line) Creation of a new station at Nîmes - Manduel on the new bypass HSL Resolution of physical bottleneck	tbd	tbd
FR	Transport	Avignon node (RRT + IWW) Creation of a trimodal platform IWW-rail-road by upgrading and intergating existing port facilities on Courtine area and RRT of Champfleury (development of multimodal logistics platforms with road, rail and IWW connections). Program on 70 ha area Rail connections to inland ports Road connections to inland ports Development of a multimodal logistic platform	110m	tbd
FR	Transport	Projet de déplacement urbain et périurbain Orléans - Châteauneuf	> 50m	tbd
FR	Transport	Projet de la nouvelle entrée Ouest de Saint-Denis (NEO)	> 75m	tbd
GR	Transport	Thessaloniki Metro Extension to Kalamaria - Main construction works and rolling stock acquisition – Phase B	> 50m	tbd
GR	Transport	Thessaloniki Metro Main Line - Completion of construction and rolling stock acquisition - Phase B	> 50m	tbd
GR	Transport	Completion of construction of road connection of the Aktio area with the Western North-South Axis - Phase B	> 75m	tbd
GR	Transport	Construction of motorway "Patras -Pyrgos"	> 75m	tbd
GR	Transport	Athens Metro extension Haidari to Piraeus & Athens Metro Rolling Stock - completion of construction works and operation - Phase B	> 50m	tbd
GR	Transport	Completion of the road axis of Central Greece (E65): Section "Lamia - Xyniada"	> 75m	tbd
GR	Transport	Athens Metro Line 4 - Section " Alsos Veikou- Evangelismos"	> 50m	tbd
GR	Transport	Construction of motorway "Kalo Nero- Tsakwna"	> 75m	tbd
GR	Transport	Construction of new double railway line Athens (SKA) - Patras section Rododafni - Rio (superstructure, electrification, signalisation)	> 75m	tbd
GR	Transport	Construction of Halkida road by-pass	> 75m	tbd
GR	Transport	Improvement / upgrading of Western Internal Ring Road of Thessaloniki from junction K16 (Lahanagora) to junction K5 (Papageorgiou Hospital)	> 75m	tbd
HR	Transport	Dubrovnik Airport	245m	tbd
HR	Transport	Zaprešić - Zabok suburban rail	68m	tbd
HR	Transport	Road connection to south Dalmatia	250m	tbd
HR	Transport	Gradiška bridge	65m	tbd
HR	Transport	Rijeka D403 connection road	66m	tbd
HR	Transport	GSM-Rail	200m	tbd
HR	Transport	Railway Hrvatski Leskovac - Karlovac	356m	tbd
HR	Transport	Railway Križevci - Koprivnica –national border	275m	tbd
HR	Transport	Vinkovci - Vukovar rail electrification	55m	tbd
HU	Transport	M4 between Berettyóújfalu and Nagykereki, country border (2x2)	226m	tbd
HU	Transport	M35 (II. phase) between Debrecen and Berettyóújfalu (2x2)	62m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
HU	Transport	M0 upgrading of Southern sector (I. phase) (without replacing superstructure of Deák Ferenc bridge)	174m	tbd
HU	Transport	M6 between Bóly and Ivándárda, country border (2x1)	95m	tbd
HU	Transport	M30 Miskolc-state border I. phase (2x1)	> 75m	tbd
HU	Transport	M2 between Budapest and Vác (2x2)	121m	tbd
HU	Transport	Procurement of electric multiple units with 200 places/unit	125m	tbd
HU	Transport	Upgrading railway line between Szántód-Köröshegy and Balatonszentgyörgy	196m	tbd
HU	Transport	Upgrading railway line between Püspökladány and Debrecen, deploying ETCS2 between Szajol and Debrecen	226m	tbd
HU	Transport	Procurement of electric multiple units with 300 places/unit	442m	tbd
HU	Transport	Upgrading Szombathely railway station	96m	tbd
HU	Transport	Upgrading railway line between Miskolc and Nyíregyháza	203m	tbd
HU	Transport	Development and upgrading of Budapest suburban train (HÉV) lines	87m	tbd
HU	Transport	Eliminating bottleneck and electrification of railway line between Szeged - Hódmezővásárhely - Békéscsaba - Gyula	90m	tbd
HU	Transport	Debrecen intermodal passenger centre	113m	tbd
HU	Transport	Development of intermodal changing connections at railway stations of cities with county right and establishing P+Rs in suburban zones of country centres I.	207m	tbd
HU	Transport	Upgrading railway line Rákospalota-Újpest - Veresegyház - Vác	179m	tbd
HU	Transport	Upgrading railway line between Hungária körút and Rákospalota-Újpest	167m	tbd
HU	Transport	Eliminating bottlenecks and electrification of Kőbánya-Kispest - Lajosmizse - Kecskemét railway line	86m	tbd
HU	Transport	Main road between Pápa and M1 bypassing settlements and upgrading (2x1)	95m	tbd
IE	Transport	Cork Port infrastructure developments primarily at Ringaskiddy as part of the Port of Cork Master plan	100m	tbd
IE	Transport	Dublin Alexandra Basin redevelopment as part of the Port of Dublin Master plan.	150m	tbd
IT	Transport	Genoa-Tortona High speed railway link "Terzo valico dei Giovi"	6 197m	tbd
IT	Transport	Milan (Malpensa) Connection tunnel terminal 1-satellite, people mover / Category: Intermodal integration	225m	tbd
IT	Transport	Port of Genoa Port Improvements	340m	tbd
IT	Transport	Palermo node Palermo railway node / Urban node: the measure consist in the construction of a second track of the Palermo bypass and the provision of Computer Based Railway Control System in order to develop urban and suburban railway services and enhance the connection with Punta Raisi airport	1 077m	tbd
IT	Transport	Firenze-Bologna "Variante di valico" between Firenze and Bologna / The measure is a deviation of A1 motorway, 62.5 km long and with long stretches in viaduct and tunnel, running parallel to the central part of the Bologna-Florence section.	3 700m	tbd
IT	Transport	Salerno-Reggio Calabria Salerno-Reggio Calabria motorway / Completion of the motorway between Salerno and Reggio Calabria	7 443m	tbd
IT	Transport	Trento-Vicenza A31 Valdastico motorway - north / Construction of the A31 motorway etween Trento and Piovene Rocchette	1 984m	tbd
IT	Transport	Bologna node Bologna motorway node / Construction of a northern by-pass for the Bologna node	1 430m	tbd
IT	Transport	Bologna node Bologna-Casalecchio di Reno node / Upgade of motorway connection between Bologna and Casalecchio	254m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
IT	Transport	Verona-Bologna Motorway link Campogalliano-Sassuolo / Objective of the measure is the connection between the Sassuolo industrial area and the A1 motorway by the construction of a road link.	506m	tbd
IT	Transport	Roma-Napoli Roma-Latina Motorway / Construction of a new motorway stretch between Roma and Latina (68,3km) a by-pass in Latina and the upgrade of connections to the existing infrastructure.	2 700m	tbd
IT	Transport	Napoli-Salerno Salerno-Avellino motorway upgrading / Upgrading of the Salerno-Avellino existing road to motorway standards.	246m	tbd
IT	Transport	Roma-Napoli Benevento Caianello motorway / Upgrading to 4 lanes of the Benevento-Caianello road (SS 372 Telesina)	588m	tbd
IT	Transport	Salerno-Reggio Calabria Salerno-Reggio Calabria motorway (further 59 km) / Construction of last 59 km (sum of different stretches) of the Salerno-Reggio Calabria motorway	2 900m	tbd
IT	Transport	Siracusa-Gela Siracusa-Gela motorway / Construction of new motorway between Siracusa and Gela	866m	tbd
IT	Transport	Ragusa-Catania Ragusa-Catania motorway / Construction of new motorway between Ragusa and Catania	815m	tbd
IT	Transport	Taranto Seaport Hub / The project aims at developing the Taranto seaport as a transshipment hub, and to the creation of an intermodal platform.	220m	tbd
IT	Transport	Salerno Seaport Hub / The project aims at developing the Salerno seaport as a hub by improving the infrastructure and the road and rail connections.	240m	tbd
IT	Transport	Catania and Termini Imerese Seaport Hub / The project aims at developing the Catania seaport as a transshipment hub.	184m	tbd
IT	Transport	Friuli Venezia Giulia Region Upgrading of the A4 Venice-Trieste Motorway: Bridge over the Tagliamento and Palmanova junction	441m	tbd
IT	Transport	Veneto Region Upgrading of the A4 Venice-Trieste Motorway: third lane section upgrading works between S.Donà di PIAVE - Alvisopoli junction	561m	tbd
IT	Transport	Friuli Venezia Giulia Region Upgrading of the A4 Venice-Trieste Motorway: third lane section upgrading works between Gonars - Villesse	215m	tbd
IT	Transport	Friuli Venezia Giulia Region First phase: construction of a new quay called "Logistic Platform" which has to be directly connected to the belt-road and the off-port rail network, with a wharf of about 600 meters in length and a depth of 14 meters	132m	tbd
IT	Transport	Friuli Venezia Giulia Region Second phase: construction of a new quay called "Logistic Platform", with a wharf of about 600 meters in length and a depth of 12-14 meters	185m	tbd
IT	Transport	Friuli Venezia Giulia Region Enlargement of the container terminal at quay VII increasing the potential up to a maximum of 1,200,000 TEU (dimension 200m, 18m depth)	187m	tbd
IT	Transport	Friuli Venezia Giulia Region Realization of a new Ro-Ro terminal in the Noghere valley area with a "working" draught of no less than 12 meters for berthing RO-RO vessels and a total surface of 430.000 sqm	126m	tbd
IT	Transport	Veneto Region Construction of an offshore Port HUB for large ships avoiding oil carriers to transit on the Laguna and able to host up to Ultra Large Container Vessel (seawall, oil terminal, pipeline and container quay)	948m	tbd
IT	Transport	Emilia Romagna Region First Phase: dredging works in several channels (Candiano, S.Vitale, Trattaroli) up to 11,5 – 13,5 meters; adapting quay layout	200m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
IT	Transport	Veneto Region Construction of railway station	114m	tbd
IT	Transport	Emilia Romagna Region People Mover between Railway Station and Airport	107m	tbd
IT	Transport	Ravenna Core Port First Phase: dredging works in several channels (Candiano, S.Vitale, Trattaroli) up to 11,5 – 13,5 meters; adapting quay layout Resolution of a physical bottleneck Second Phase: dredging works up to 14m; realisation of a new quay serving a specific container terminal Resolution of a physical bottleneck	200m	tbd
IT	Transport	Stations Upgrade of stations along the corridor in order to enhance quality of service. Resolution of physical bottleneck	400m	tbd
IT	Transport	Turin - Padua – Venice – Trieste Core network Upgrade of train length to 740 m Interventions concerning compliance with Core Network standards on trains length (Target: 740 m)	120m	tbd
IT	Transport	Sections belonging to the Mediterranean corridor ERTMS implementation on the Mediterranean corridor (phase 2). Development of traffic management system	190m	tbd
IT	Transport	Milan-Bologna Core network Upgrade of train length to 740 m Interventions concerning compliance with Core Network standards on trains length (Target: 740 m)	120m	tbd
IT	Transport	Completamento dell' Adeguamento ferroviario dell' area metropolitana Nord-barese	> 75m	tbd
IT	Transport	Completamento dell' Ampliamento dell' Interporto Regionale di Puglia con la realizzazione di piattaforme logistiche dedicate	> 75m	tbd
IT	Transport	Completamento della Bretella ferroviaria del Sud Est (Fse) barese	> 75m	tbd
IT	Transport	Rolling stock	> 50m	tbd
IT	Transport	Investimenti trasporto ferroviario (acquisto treni)	> 50m	tbd
IT	Transport	Potenziamento tecnologico nodo di Napoli	> 75m	tbd
IT	Transport	Raddoppio Bari - S. Andrea Bitetto	> 75m	tbd
IT	Transport	Raddoppio Palermo-Messina - Tratta Fiumetorto-Ogliastrello	> 75m	tbd
IT	Transport	Velocizzazione Catania-Siracusa - Tratta Bicocca-Targia	> 75m	tbd
IT	Transport	Porto di Salerno - Collegamenti ferroviari e stradali. Sistema dei trasporti Salerno Porta Ovest	> 75m	tbd
IT	Transport	Potenziamento del Porto commerciale di Augusta	> 75m	tbd
LT	Transport	Lithuania (Kaunas–Marijampole urban node) Road A5 Kaunas–Marijampole–Suwalki, section 17.34-56.83 km: construction of two additional lanes (2+2) in order to ensure traffic safety (reduce number of accidents and killed people) and to improve more convenient and sufficient traffic conditions for local and transit transport in conformity with the constantly growing level of traffic volumes, road significance and international standards.	172m	tbd
LT	Transport	Vilnius western bypass Phase III	> 75m	tbd
LU	Transport	Bettembourg/ Cross-border Construction of new bimodal terminals (rail/road) in Bettembourg/Dudelange	220m	tbd
LU	Transport	Howald/ Cross Border Construction of a new peripheral railway station in Luxembourg-Howald	294m	tbd
LV	Transport	Riga Integration of Riga city and Freeport of Riga into TEN-T network: Riga Northern transport corridor	1 500m	tbd
LV	Transport	Riga The expansion of the existing terminal of the JSC Riga International Airport (Stages 5 and 6)	88m	tbd
LV	Transport	Ventspils-Jelgava-Krustpils; Krustpils-Rezekne; Krustpils-Daugavpils; Riga-Jelgava; Riga-Tukums; Riga-Skulte; Riga-Krustpils Electrification of the East-West rail corridor and the passenger train route network of Pieriga with 25 kV alternating current	549m	tbd
LV	Transport	E67/A7 Riga – Kekava Kekava bypass construction	74m	tbd
LV	Transport	E67/A4 Baltezers – Saulkalne Riga Bypass rebuilding from 2 to 4 lanes (two carriageways)	116m	tbd

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LV	Transport	Ventspils Development project of the Northern port in the Freeport of Ventspils	100m	tbd
LV	Transport	Development of Riga tram infrastructure	> 50m	tbd
MT	Transport	Route 1 - Marsa road link (WA19a to EA21) Proposed upgrading of the road, realignment of carriageway to conform to 60kmh design speed and grade separation of three critical junctions	75m	tbd
NL	Transport	Amsterdam A10 Separate local from long-distance traffic.	332m	tbd
NL	Transport	Utrecht – Arnhem A12 One more lane (in both directions)	110m	tbd
NL	Transport	Rotterdam Blankenburg Tunnel	1 154m	tbd
NL	Transport	Rotterdam North eastern Rotterdam Bypass to connect the A13 and A16 motorways.	964m	tbd
NL	Transport	Rotterdam A4 New infrastructure to relieve bottlenecks, or upgrading current infra.	440m	tbd
NL	Transport	Amsterdam Increase capacity of railway station Amsterdam South. Improve road and immediate junctions.	994m	tbd
NL	Transport	Rotterdam Port (Europort) – Zwijndrecht Caland railway bridge, upgrade, new construction or diverting route	420m	tbd
NL	Transport	Amsterdam - Utrecht – Rotterdam/ Increase capacity of Princess Beatrix Lock	233m	tbd
NL	Transport	Lek Canal in connection Amsterdam-Rotterdam/Antwerp Increase capacity of Princess Beatrix Lock and lek Canal improvements	233m	tbd
NL	Transport	Ijmuiden-Amsterdam Build a new lock (upgrading)	879m	tbd
NL	Transport	Rotterdam North eastern Rotterdam Bypass to connect the A13 and A16 motorways	964m	tbd
PL	Transport	Express road S 8 Marki – Radzymin New construction (express road standard 2+2 lanes, sufficient parking areas, use of tolling systems / ITS, interoperability)	160m	tbd
PL	Transport	Express road S 8 Wyszków Północ – Ostrów Mazo-wiecka (Brok) New construction (express road standard 2+2 lanes, sufficient parking areas, use of tolling systems / ITS, interoperability)	340m	tbd
PL	Transport	Express road S 61 Ostrów Mazowiecka –Augustow bypass New construction / upgrade (mostly express road standard 2+2 lanes, sufficient parking areas, use of tolling systems / ITS, interoperability)	1 320m	tbd
PL	Transport	Express road S 61 Augustow bypass - Suwałki - Lithuanian border New construction / upgrade (mostly express road standard 2+2 lanes, sufficient parking areas, use of tolling systems / ITS, interoperability)	410m	tbd
PL	Transport	Motorway A 2 Majdan – Mińsk Mazowiecki New construction (motorway standard, sufficient parking areas, use of tolling systems / ITS, interoperability)	200m	tbd
PL	Transport	Motorway A 2 Kałuszyn – Siedlce New construction (motorway standard, sufficient parking areas, use of tolling systems / ITS, interoperability)	400m	tbd
PL	Transport	Express road A 2 Siedlce - Biała Podlaska - Belarus border (Kukuryki) New construction (express road standard 2+1 lanes, sufficient parking areas, use of tolling systems / ITS, interoperability)	850m	tbd
PL	Transport	Pyrzowice-Częstochowa A1: Pyrzowice-Częstochowa by-pass	858m	tbd
PL	Transport	Koszwały – Kazimierzowo S7: section Koszwały – Kazimierzowo	3 588m	tbd
PL	Transport	Gorzów Wielkopolski, Międzyrzecze S3: Sulechów (Kruszyna junction) – Nowa Sól, II lane of Gorzów Wielkopolski by-pass and II lane of Międzyrzecze by-pass	1 253m	tbd
PL	Transport	Szczecin and Świnoujście Modernisation of the fairway Świnoujście-Szczecin to a depth of 12.5m	346m	tbd
PL	Transport	Construction of S14 express road - Łódź western bypass (A2-S8)	482m	tbd
PL	Transport	Construction of S69 express road, section Bielsko-Biała – state border	474m	tbd
PL	Transport	Construction of S11 express road, section Poznań – Kępno	1 183m	tbd
PL	Transport	Modernisation of railway line no 8, section: Warka - Radom (Lot: C, D, E)	234m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PL	Transport	Construction of S6 express road, section Słupsk – Gdańsk	2 460m	tbd
PL	Transport	Construction of S3 express road, section Świnoujście – Szczecin	635m	tbd
PL	Transport	Works on railway line no 93, section: Trzebinia - Oświęcim - Czechowice Dziedzice	123m	tbd
PL	Transport	Works on railway lines no 138, 161, 180, 654, 655, 657, 658, 699, sections: Gliwice – Bytom – Chorzów Stary – Mysłowice Brzezinka – Oświęcim and Dorota – Mysłowice Brzezinka	85m	tbd
PL	Transport	Works on railway lines no 140, 148, 157, 159, 173, 689, 691, section: Chybie - Żory - Rybnik - Nędza / Turze	142m	tbd
PL	Transport	Construction of S74 express road, section Sulejów – Kielce	957m	tbd
PL	Transport	Construction of S12 express road, section Lublin – Dorohusk	1 038m	tbd
PL	Transport	Construction of S12 express road, section Piotrków Trybunalski – Radom	994m	tbd
PL	Transport	Construction of S11 express road, section Kepno - Katowice	1 512m	tbd
PL	Transport	Works on railway line C-E 30, section: Opole Groszowice – Jelcz – Wrocław Brochów	85m	tbd
PL	Transport	Works on railway line no 1, section: Częstochowa – Zawiercie	85m	tbd
PL	Transport	Works on railway line E 20, section: Warszawa - Poznań - remaining works, Sochaczew - Swarzędz section	732m	tbd
PL	Transport	Works on railway line Warszawa Włochy - Grodzisk Mazowiecki (line no 447)	99m	tbd
PL	Transport	Works on railway line no 8, section: Skarżysko Kamienna – Kielce – Kozłów	113m	tbd
PL	Transport	Improvement of the technical condition of passenger service infrastructure (including adaptation to TSI PRM requirements)	85m	tbd
PL	Transport	National road DK28 - Construction of Sanok bypass	48m	tbd
PL	Transport	Construction of S11 express road - Szczecinek bypass	195m	tbd
PL	Transport	Construction of S10 express road - Wałcz bypass	196m	tbd
PL	Transport	Modernisation of railway line no 354 Poznań Główny – Piła Główna	131m	tbd
PL	Transport	Construction of S61 express road, section Ostrów Mazowiecka – Augustów bypass	1 551m	tbd
PL	Transport	Construction of S1 express road, section Pyrzowice – Bielsko Biała	1 034m	tbd
PL	Transport	Construction of S74 express road, section Kielce – Nisko	1 732m	tbd
PL	Transport	Construction of S19 express road, section Białystok – Lublin	2 706m	tbd
PL	Transport	Works on E 20 railway line, section: Siedlce - Terespol, phase III - LCS Terespol	141m	tbd
PL	Transport	Construction of S7 express road, section Kraków – Rabka	982m	tbd
PL	Transport	Construction of S11 express road, section Piła – Poznań	1 068m	tbd
PL	Transport	Construction of S17 express road, section Lublin – Hrebenne	1 611m	tbd
PL	Transport	Construction of S19 express road, section Rzeszów – state border	2 502m	tbd
PL	Transport	Modernisation of breakwater structure alignment in Northern Port	186m	tbd
PL	Transport	Gdańsk Northern Port - construction of a port harbour for ships in danger and posing a threat of an ecological disaster, along with breakwater infrastructure and anti-flood dam	135m	tbd
PL	Transport	Works on railway lines no 68 i 585, section: Lublin Stalowa Wola Rozwadów with electrification	tbd	tbd
PL	Transport	Construction of S10 express road, section Toruń – Bydgoszcz	578m	tbd
PL	Transport	Construction of S19 express road, section state border – Białystok (S8)	900m	tbd
PL	Transport	Works on railway line C-E 59, section: Wrocław Brochów / Grabiszyn - Głogów - Zielona Góra - Rzepin - Szczecin Podjuchy	282m	tbd
PL	Transport	Works on railway line no 7 Warszawa Wschodnia Osobowa - Dorohusk, section: Otwock - Dęblin - Lublin	986m	tbd
PL	Transport	Works on Warsaw cross-city line, section: Warszawa Wschodnia - Warszawa Zachodnia	282m	tbd
PL	Transport	Streamlining of Łódź Railway Node (TEN-T), phase II, section: Łódź Fabryczna - Łódź Kaliska/Łódź Żabieniec	648m	tbd
PL	Transport	Works on railway lines no 15, 16, section: Łódź Kaliska – Zgierz – Kutno	113m	tbd
PL	Transport	Works on railway line C-E 20, section: Skierniewice - Pilawa - Łuków	141m	tbd
PL	Transport	Construction of a railway link between MPL „Katowice” in Pyrzowice with the cities of Upper Silesia, section: Katowice - Pyrzowice	451m	tbd
PL	Transport	Works on railway line no 139, section: Czechowice Dziedzice – Bielsko Biała - Zwardoń (state border)	99m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PL	Transport	Installation of ERTMS on railway lines which will not be covered by the comprehensive investment project – outside the core TEN-T network and freight corridors	563m	tbd
PL	Transport	Construction of regional road Racibórz-Pszczyna, Rybnik section	171m	tbd
PL	Transport	Construction of S12 express road, section Radom – Lublin	683m	tbd
PL	Transport	Construction of northern bypass for Tricity Agglomeration	262m	tbd
PL	Transport	Construction of S10 express road, section Płońsk – Toruń	1 307m	tbd
PL	Transport	Construction of S10 express road, section Bydgoszcz – Piła	808m	tbd
PL	Transport	Modernisation of sea lane Świnoujście - Szczecin until the depth of 12,5m	390m	tbd
PL	Transport	Works on railway line E 30, section: Kędzierzyn Koźle – Opole Zachodnie	85m	tbd
PL	Transport	Works on railway line C-E 65, section: Bydgoszcz - Tczew	197m	tbd
PL	Transport	Railway line no 202, section: Gdynia Chylonia - Słupsk	423m	tbd
PL	Transport	Works on railway line no 38, section Ełk – Korsze with electrification	113m	tbd
PL	Transport	Works on railway line no 143, section: Kluczbork - Oleśnica - Wrocław Mikołajów	141m	tbd
PL	Transport	Improvement of E 20 railway line throughput, section: Warszawa Rembertów - Mińsk Mazowiecki, phase II: Construction of additional pair of tracks on Warszawa Rembertów - Sulejówek Miłosna section	197m	tbd
PL	Transport	Works on railway lines no nr 97, 98, 99, section: Skawina - Sucha Beskidzka - Chabówka - Zakopane, with construction of railway link in w Sucha Beskidzka and Chabówka	170m	tbd
PL	Transport	Construction of a new railway line Modlin - Płock	507m	tbd
PL	Transport	Works on railway line E 75, section: Białystok - Suwałki - Trakiszki (state border)	704m	tbd
PL	Transport	Works on alternative transport corridor Bydgoszcz - Trójmiasto, comprising lines no 201 i 203, phase II - with electrification	103m	tbd
PL	Transport	Construction of a deep-water wharf in the outer port in Świnoujście	85m	tbd
PL	Transport	Construction of a new railway line Podłęże - Szczyrzyc - Tymbark/Mszana Dolna and modernisation of existing railway line no 104 Chabówka - Nowy Sącz	1 690m	tbd
PL	Transport	Improvement of the technical condition of civil engineering structures	85m	tbd
PL	Transport	Construction of a cross-city road East - phase I - section: Lwowska node - Jęzor node	71m	tbd
PT	Transport	Leixões Improvements in the Port	440m	tbd
PT	Transport	Sines Improvements in the Port	137m	tbd
PT	Transport	Lisbon Airport Lisbon airport upgrade	137m	tbd
PT	Transport	Acquisition of two ro-ro ferries for inter-islands connections	85m	tbd
PT	Transport	Railway line Norte Railway line 'Norte': Section Gaia/Ovar - 2nd phase; Section Alfarelos/Pampilhosa – 2nd phase Section Vale de Santarém/Entroncamento Section Alverca/Castanheira do Ribatejo Section Terminal da Bobadela – logistic intermodal platform	400m	tbd
PT	Transport	Port of Aveiro: Improvement of maritime accessibility and Logistic platform	80m	tbd
PT	Transport	Railway line 'Oeste', section Meleças-Caldas da Rainha	135m	tbd
RO	Transport	Black Sea Canal and Poarta Alba – Midia Navodari Canal - Infrastructure rehabilitation, Rehabilitation of locks on the Danube-Black Sea Canal and the Poarta Alba-Midia Navodari Canal Rehabilitation of Cernavoda and Agigea locks Rehabilitation and upgrading of the basic auxiliary equipment Rehabilitation of Ovidiu lock including the high water galleries Rehabilitation of the high water galleries of the Navodari lock	tbd	tbd
RO	Transport	Port of Constanta Port of Constanta Improvements	1 220m	tbd
RO	Transport	Port of Galati Port of Galati Improvements	140m	tbd
RO	Transport	Highway Comarnic-Brasov	> 75m	tbd
RO	Transport	Highway Lugoj-Deva (Lot 2,3,4)	> 75m	tbd
RO	Transport	Highway Sebes-Turda (Lot 1,2,3,4)	> 75m	tbd
RO	Transport	Railway Bucharest-Arad via Craiova and Timisoara	> 75m	tbd

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RO	Transport	Electrification of rail Cluj-Oradea	> 75m	tbd
RO	Transport	Metroline M5 (Bucuresti)	> 75m	tbd
RO	Transport	Railway line rehabilitation Brasov-Simeria - lot Coslariu-Simeria	> 75m	tbd
RO	Transport	Railway line rehabilitation Brasov-Simeria - lot Sighisoara-Coslariu	> 75m	tbd
RO	Transport	Railwayline rehabilitation Radna-Gurasada-Simeria lot 1	> 75m	tbd
RO	Transport	Expressway Buzau-Focsani	> 75m	tbd
RO	Transport	Regional road Vaslui-Barlad-Tecuci-Galati	> 75m	tbd
RO	Transport	Expressway Bacău-Suceava	> 75m	tbd
RO	Transport	Expressway Pascani-Iasi-Ungheni	> 75m	tbd
RO	Transport	Modernisation of Bucharest ringroad south	> 75m	tbd
RO	Transport	Regional road Iasi-Vaslui-Bacau	> 75m	tbd
RO	Transport	Autostrada Sibiu-Brasov	> 75m	tbd
RO	Transport	Expressway Constanta-Tulcea-Braila (including bridge in Braila)	> 75m	tbd
RO	Transport	Highway phase Sibiu Pitesti	> 75m	tbd
RO	Transport	Regional road Sf. Gheorghe-Baile Tusnad-Miercurea Ciuc-Ditrau	> 75m	tbd
SE	Transport	Eastern Sweden Ostlänken / New double-track for high speed trains between Linköping and Järna via Skavska airport. The investment will radically reduce travel time between Stockholm-Skavsta/Nyköping-Norrköping/Linköping and reduce travel time between Stockholm and Malmö. The new link will reduce capacity problems on the existing railway in the corridor	3 871m	tbd
SE	Transport	Stockholm C Stockholm C-Stockholm Södra, including Stream bridges in Stockholm. The reconstruction will be made after Citybanan has opened.	293m	tbd
SE	Transport	Varberg Varberg double track / Just over 5 kilometer of new double track between Varberg and Hamra, of which approx 3 km in tunnel. A new travel centre with station will be constructed.	379m	tbd
SE	Transport	Södertälje Södertälje sluss / Re-building to a larger lock-system, deepened and widened fairway to increase capacity and safety. Improved safety and improved for private actors.	161m	tbd
SI	Transport	Station Pragersko Creation of siding, pax tracks, extra tracks Benefit: Capacity improvement Resolution of physical bottlenecks	185m	tbd
SI	Transport	Zidani Most–Celje To assure D4 down the whole section Benefit (Capacity improvement) Resolution of physical bottlenecks Intervention concerning compliance of network standards for loading gauge.	156m	tbd
SK	Transport	Port of Bratislava Modernisation of the port	170m	tbd
SK	Transport	Motorway D1 Motorway D1 Modernisation /construction works	990m	tbd
SK	Transport	Motorway D3 Motorway D3 Construction of several sections	1 470m	tbd
SK	Transport	R2 Mníchova Lehota – Ruskovce	> 75m	tbd
SK	Transport	ZSSK fleet renewal rail vehicles	> 75m	tbd
SK	Transport	Čierna nad Tisou, modernisation of node	> 75m	tbd
SK	Transport	R2 Rožňava – Jablonov nad Turňou (Soroška)	> 75m	tbd
SK	Transport	Connection of the city quarter Petržalka to the city centre by rail, NS UMT 1st phase Main station – Janíkov dvor, operating section Bosákova street – Janíkov dvor, 2nd part Bosákova – Janíkov dvor	> 75m	tbd
SK	Transport	Modernisation and construction of the public port in Bratislava	> 75m	tbd
SK	Transport	Deployment of ERTMS on Corridor IV Bratislava – Nové Zámky – Štúrovo / Komárno (ETCS L2 + GSM R)	> 75m	tbd
SK	Transport	R2 Košice, Šaca – Košické Oľšany	> 75m	tbd
SK	Transport	Deployment of ERTMS on Corridor IV Kúty – Bratislava (ETCS L2 + GSM R)	> 75m	tbd
UK	Transport	Motorway A30	80m	tbd
FR	Social Infrastr. Health Education	Le centre NAUSICAA	> 50m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
PL	Social Infrastr. Health Education	Equipping the new premises of University Hospital in Karków Prokocim	> 75m	tbd
PL	Social Infrastr. Health Education	Regional Children's Health Centre	85m	tbd
PL	Social Infrastr. Health Education	Development of Integrated Regional Health Centre L. Rydygier w Toruniu	118m	tbd
ES	Resources & Environment	Osouto WWTP in Santiago de Compostela	> 75m	tbd
ES	Resources & Environment	EDAR de Cáceres	> 50m	tbd
FR	Resources & Environment	Complexe environnemental de valorisation des déchets	> 50m	tbd
GR	Resources & Environment	Water supply Island of Corfu	> 50m	tbd
GR	Resources & Environment	Rearrangement of Esxatia torrent	> 50m	tbd
GR	Resources & Environment	Waste treatment unit Ano Liosia	> 50m	tbd
GR	Resources & Environment	Waste treatment unit Fyli	> 50m	tbd
GR	Resources & Environment	Integrated waste disposal facilities NE Thessaloniki	> 50m	tbd
GR	Resources & Environment	Waste water treatment facilities and sewage networks Nea Makri and Marathonas	> 50m	tbd
GR	Resources & Environment	Havria Dam	> 50m	tbd
GR	Resources & Environment	Waste water treatment facilities and sewage networks Rafina and Artemida	> 50m	tbd
GR	Resources & Environment	Integrated waste disposal facilities Peloponese PPP	> 75m	tbd
HR	Resources & Environment	Waste Management Center Piškornica	80m	tbd
HR	Resources & Environment	Waste Management Center Biljane donje	60m	tbd
HR	Resources & Environment	Regional water supply ZAGREB ISTOK	> 50m	tbd
HR	Resources & Environment	VELIKA GORICA water infrastructure	> 50m	tbd
HR	Resources & Environment	Waste Management Center Lečevica	60m	tbd
HR	Resources & Environment	Waste Management Center Antunovac	60m	tbd
HR	Resources & Environment	NIN-PRIVLAKA-VRSI-VIR water infrastructure	80m	tbd
HR	Resources & Environment	Regional water supply ISTOČNA SLAVONIJA	> 50m	tbd
HR	Resources & Environment	Remediation of location highly polluted by waste ("hot spot") - Sovjak	60m	tbd
HR	Resources & Environment	Waste Management Center City of Zagreb	> 75m	tbd
HR	Resources & Environment	KAŠTELA-TROGIR water infrastructure	> 75m	tbd
HR	Resources & Environment	OSIJEK water infrastructure	> 50m	tbd
HR	Resources & Environment	POREČ wastewater infrastructure	> 50m	tbd
HR	Resources & Environment	RIJEKA water infrastructure	> 50m	tbd
HR	Resources & Environment	SPLIT-SOLIN water infrastructure	> 50m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
HR	Resources & Environment	VUKOVAR water infrastructure	> 50m	tbd
HR	Resources & Environment	ZABOK-ZLATAR water infrastructure	> 50m	tbd
HR	Resources & Environment	ZAGREB water infrastructure	200m	tbd
HU	Resources & Environment	Budapest Central Sewage Works, environmentally sound disposal of wastewater sludge	65m	tbd
HU	Resources & Environment	Flood protection and water supplement of Upper Danube fork systems	95m	tbd
HU	Resources & Environment	Rehabilitation of water level at mouth section of Moson Danube	63m	tbd
HU	Resources & Environment	Configuration of flood protection lines to standard flood level in the Tisza valley, reduction of weight on protection lines	100m	tbd
HU	Resources & Environment	Improvement of Vásárhelyi Plan – Configuration of reservoir at the Lower Tisza	57m	tbd
HU	Resources & Environment	Improvement of Vásárhelyi Plan – Configuration of flood protection system at the Upper Tisza	119m	tbd
HU	Resources & Environment	Improvement of Vásárhelyi Plan – Acquittance of foreshore	54m	tbd
HU	Resources & Environment	Improvement of Vásárhelyi Plan – Configuration of reservoirs at the Mid-Tisza	59m	tbd
PT	Resources & Environment	Amphibious aircraft for fight against forest fires	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Suceava	> 75m	tbd
RO	Resources & Environment	Water/Wastewater Glina Bucharest, phase 2	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Iași	> 50m	tbd
RO	Resources & Environment	Coastal protection Black Sea phase 2	> 50m	tbd
RO	Resources & Environment	International study center on river delta sea systems(DANUBIUS – RI)	> 75m	tbd
RO	Resources & Environment	Water/Wastewater Dâmbovița	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Gorj	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Hunedoara	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Vrancea	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Constanța	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Cluj și Sălaj	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Alba	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Botoșani	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Brăila	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Călărași	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Dolj	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Ilfov	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Satu Mare	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Timiș	> 50m	tbd

Member State	Sector	Illustrative Projects	Total Project Investment (EURm)	Investment next 3 years (EURm)
RO	Resources & Environment	Water/Wastewater Vâlcea	> 50m	tbd
RO	Resources & Environment	Risk management on river trotus	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Botoșani phase 2	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Arad	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Sibiu and Brasov	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Argeș	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Bistrița Năsăud	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Buzău	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Caraș-Severin	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Galați	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Mureș	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Olt	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Teleorman	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Valea Jiului (județul Hunedoara)	> 50m	tbd
RO	Resources & Environment	Decontamination of histroically polluted sites from oil production, phase 2	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Bacău	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Bihor	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Giurgiu	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Mehendiți	> 50m	tbd
RO	Resources & Environment	Water/Wastewater Turda Câmpia Turzii	> 50m	tbd

Member State	Sector	Illustrative Sectorial Schemes	Total Project Investment (EURbn)	Investment next 3 years (EURbn)
EU28	Knowledge Innovation Digital	Broadband projects in Europe Of the 13.5 billion ERDF funding allocated under the adopted Partnership Agreements for the objective of “enhancing access to and use and quality of ICT” until 2020, an estimated 40% will go into broadband and other ICT infrastructure	5.40	tbd
EU28	Knowledge Innovation Digital	InnoVFin - EU Finance for Innovators The European Investment Bank Group and the European Commission have made it a top priority to facilitate access to finance for innovative businesses in Europe by launching “InnoVFin – EU finance for Innovators”, a continuum of debt and equity, financial instruments, and financial advisory services implemented by the EIB Group, covering the entire value chain of RDI in order to support investments from the smallest to the largest enterprises (including research organisations and research infrastructures).	48,00bn	21,00bn
EU28	Knowledge Innovation Digital	InnovFin application 1: A pilot financial facility in the field of infectious diseases The proposed facility will take the form of a separate pilot product within the Horizon 2020 loans for R&I to provide adequate risk-mitigating tools that would encourage industry to invest more heavily in the field of Infectious Diseases including developing new treatments and vaccines answering to the emergence of antimicrobial resistance.	0,30bn	0,30bn
EU28	Knowledge Innovation Digital	InnovFin application 2: A Risk Finance Facility to support first-of-a kind commercial demonstration projects in the field of renewable energy InnovFin 2 Risk Finance Facility is aimed at supporting high-risk, first-of-a kind commercial demonstration projects in the field of renewable energy to mitigate the risks related to a number of factors, such as the complex project arrangements with technology providers, services providers and grid providers; installation and maintenance; licensing environment and consenting procedures; and unclear market regulations.	12,50bn	3,00bn
EU28	Knowledge Innovation Digital	Vessels for the future (energy efficient, safe and environmental friendly vessels) Development of innovations to improve safety (of crews and passengers), emissions and energy efficiency.	1,00bn	0,50bn
EU28	Knowledge Innovation Digital	EU SusChem Platform: Transforming CO2 into value Transforming CO2 into value for a rejuvenated European economy, focusing on: Energy storage and Fuels; Chemicals and materials (alternative renewable resource); Direct photoconversion for the production of chemicals or fuels	1,00bn	1,00bn
EU28	Knowledge Innovation Digital	Batteries for e-mobility under EGVA Establishing a complete value chain for batteries for electro-mobility in Europe, including manufacturing capacities.	5,00bn	1,00bn
EU28	Knowledge Innovation Digital	Personalised medicine – a systemic change in healthcare The initiative will provide the necessary evidence supporting the shift towards personalised health & care in selected therapeutic areas by developing tailor-made predictive, preventive and therapeutic strategies for individuals and their particular health condition, taking advantage of the 'Big Data' revolution.	1,00bn	0,30bn

Member State	Sector	Illustrative Sectorial Schemes	Total Project Investment (EURbn)	Investment next 3 years (EURbn)
EU28	Knowledge Innovation Digital	The Circular Economy - Sustainable Process Industries (SPIRE) In the frame of the SPIRE, eight industrial sectors: chemical, steel, cement, ceramics, minerals, non-ferrous metals, industrial water and process engineering, will address industrial processing and systems, aiming at reducing the consumption of energy and material resources, and minimising waste.	6,75bn	tbd
EU28	Knowledge Innovation Digital	The Circular Economy - Energy-efficient Buildings (EeB) The EeB initiative will support a high-tech building industry which turns the need for energy efficiency into an opportunity for sustainable business, with higher productivity and higher-skilled employees, fostering EU competitiveness in the construction sector at the global level.	2,40bn	tbd
EU28	Knowledge Innovation Digital	The Circular Economy - The European Green Vehicles Initiative (EGVI) The EGVI initiative aims to improve the energy efficiency of road transport vehicles based on alternative powertrains and fuels by furthering the introduction of these alternative, renewable and clean fuels to decrease dependency on fossil fuels.	1,50bn	0,48bn
EU28	Knowledge Innovation Digital	Industry 4.0 - Factories of the Future (FoF) The FoF initiative will help EU manufacturing enterprises, including SMEs, to adapt to global competitive pressures by developing and deploying the necessary key enabling technologies to support EU manufacturing across a broad range of sectors. and to meet the increasing global consumer demand for greener, more customised and higher quality products with less waste and a better use of resources.	8,50bn	tbd
EU28	Knowledge Innovation Digital	European Strategy Forum for Research Infrastructures (ESFRI) - Prioritised Projects Priority projects, selected by the European Strategy Forum for Research Infrastructures (ESFRI), will be implemented to develop world class large scale Research Infrastructures for pan-European R&I activities.	5,40bn	tbd
EU28	Knowledge Innovation Digital	Fuel Cells and Hydrogen (FCH) 2 FCH 2 will bring hydrogen as a clean energy storage material and energy carrier, as well as fuel cells as highly efficient energy converters closer to the market.	1,30bn	0,32bn
EU28	Knowledge Innovation Digital	Clean Sky 2 Joint Undertaking develops and demonstrates break-through technologies for civil aircraft market to cut aircraft emissions and noise, and secure the future international competitiveness of the European aviation industry.	3,95bn	1,13bn
EU28	Knowledge Innovation Digital	Bio-based Industries (BBI) The Bio-based Industries Joint Undertaking (BBI) is dedicated to tap into Europe's bioeconomy potential, turning biological renewable resources and wastes into greener everyday bio-based products through innovative technologies and biorefineries.	3,70bn	1,85bn
EU28	Knowledge Innovation Digital	Innovative Medicine Initiative (IMI) 2 The Innovative Medicines Initiative (IMI) 2 will address some of the challenges resulting from the growing burden of chronic and degenerative diseases by addressing the entire health R&I value chain to deliver diagnostic and treatment bio-markers, better success rate in clinical trials, clinical proof of concept and new therapies.	3,28bn	1,20bn
EU28	Knowledge Innovation Digital	Regional University-Business Hubs Initiative to scale up regional/ national Knowledge Alliances between HEIs and Business to stimulate the innovation capacity.	0,54bn	0,30bn
EU28	Knowledge Innovation Digital	eProcurement/Smart procurement (eSens project) Digitalisation of procurement process	1,00bn	tbd

Member State	Sector	Illustrative Sectorial Schemes	Total Project Investment (EURbn)	Investment next 3 years (EURbn)
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objective of "Promoting low carbon economy" until 2020, an estimated 12% will go into RES	4,40bn	tbd
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objective of "Promoting low carbon economy" until 2020, an estimated 19 % will go into energy efficiency investments in public infrastructure, incl. Buildings	7,30bn	tbd
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objective of "Promoting low carbon economy" until 2020, an estimated 16% will go into energy efficiency investments in residential buildings	6,10bn	tbd
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objective of "Promoting low carbon economy" until 2020, an estimated 9% will go into energy efficiency investments in enterprises	3,30bn	tbd
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objective of "Promoting low carbon economy" until 2020, an estimated 4 % will go into cogeneration and district heating	1,60bn	tbd
EU28	Energy	Of the 38 billion ERDF/CF funding allocated under the adopted Partnership Agreements for the objectives of "Promoting low carbon economy" until 2020, an estimated 9 % will go into smart energy infrastructure	3,30bn	tbd
AT, BE, CY, CZ, DE, DK, EL, ES, FI, FR, IT, NL, PT, RO, SE, UK	Energy	NER 300 programme (only projects included in the reserve lists) NER 300 is one of the world's largest funding programmes for innovative low-carbon energy demonstration projects. The programme is conceived as a catalyst for the demonstration of environmentally safe carbon capture and storage (CCS) and innovative renewable energy (RES) technologies on a commercial scale within the EU.	14,50bn	tbd
EU28	Energy	Private Finance for Energy Efficiency The Private Finance for Energy Efficiency (PF4EE) aims to stimulate private financing for investments in energy efficiency, in line with national energy efficiency action plans.	0,65bn	0,65bn
EU28	Transport	Satellite navigation applications for transports Developing and showcasing Smart City solutions with automated transport systems guided by Galileo and EGNOS	1,00bn	0,30bn
EU28	Transport	Developing networks of Battery Electric Vehicles (BEV) or Fuel Cell Hydrogen (FCH) recharging stations in different EU countries.	8,00bn	tbd
EU28	Social Infrastr. Health Education	Of the 32.8 billion EU funding (ESF/ERDF) allocated under the adopted Partnership Agreements for the objective "Investing in education training and vocational training for skills and lifelong learning" until 2020, an estimated 18% will be invested in education infrastructure (ERDF) including tertiary education, vocational training, school education and early childhood education and care.	5,90bn	tbd
EU28	Social Infrastr. Health Education	My First EURES Job Boosting "My First EURES Job" by reaching a critical mass of 200 000 young people.	1,00bn	1,00bn
EU28	Social Infrastr. Health Education	Quality Apprenticeships and traineeships for Youth Youth Employment Initiative: support new initiatives through existing instruments, e.g. Youth Guarantee/quality apprenticeships, pooling resources with companies contributing to the European Alliance on Apprenticeships.	15,00bn	15,00bn

Member State	Sector	Illustrative Sectorial Schemes	Total Project Investment (EURbn)	Investment next 3 years (EURbn)
EU28	Social Infrastr. Health Education	Student loans Widen access to higher education, in addition to Member States' student support structures.	0,60bn	0,60bn
EU28	Social Infrastr. Health Education	Micro-Finance Sub-windows created within EaSI microfinance. Support micro-finance including micro-loans schemes for young entrepreneurs in a specific MS/regions.	0,21bn	0,21bn
EU28	Social Infrastr. Health Education	Boosting Social entrepreneurship Sub-windows created within EaSI Social entrepreneurship. Examples of support include micro-loans schemes for social enterprises in a specific MS/region	0,21bn	0,21bn
EU28	Social Infrastructure Health Education	HEInnovate Framework Initiative that helps higher education institutions (HEI) to assess and improve their ability to foster innovation and entrepreneurship, through a common framework.	0,20bn	0,20bn
EU28	Resources & Environment	Natural Capital Financing Facility The objective of the NCFF is to address market gaps and barriers for revenue generating or cost saving projects that aim to preserve natural capital, including climate change adaptation and biodiversity objectives. Projects include: Payments for ecosystem services; green infrastructure projects; biodiversity offsets; innovative pro-biodiversity and adaptation businesses.	0,50bn	0,50bn
EU28	Resources & Environment	Bio-refineries, water treatment and recycling plants Building upon the existing Horizon 2020 Joint Technology Initiative on Bio-based Industries (BBI), there is an opportunity to speed up investments in bio-refineries, i.e. refineries producing fuel for general use and feedstock for the chemical industry from agricultural waste. Similar projects can be envisaged in water treatment plants to recover phosphate from sewage sludge and in plastics recycling projects. 10 bio-refineries and 5 waste water treatment and recycling plants for the 2015-17 period.	5,00bn	2,50bn
EU28	Resources & Environment	Valorisation of Construction and demolition waste To achieve the target of 70% of construction & demolition waste recycled by 2020, the EU needs 5,000 recycling plants. 2000 plants exist, 3000 additional recycling plants for construction and demolition waste are needed. Financing is expected to be provided by the private sector.	15,00bn	tbd
EU28	Resources & Environment	European Minerals Joint Venture Bring together public and private stakeholders to invest in raw materials supply projects and secure supply for European industry. Carry out exploration activities, invest in mine development and recycling installations. (1) start by investing in immediately bankable mining and recycling projects and will, and (2) deploy pilot technologies and installations at industrial scale. Build on 80 projects proposed by the European Innovation Partnership on Raw Materials. Financing is expected to be provided by the private sector.	10,00bn	tbd