LIST OF ACTIVE NATIONAL POLICY INITIATIVES FOR DIGITISATION OF INDUSTRY

#	Member State	Official name of National Initiative or Measure and web site	Key information: duration, starting date, overall investment, public and private involvement, government body responsible	Objectives: key target, industry sectors	Innovation capacity: Digital Innovation Hubs, Competence Centers, Industrial Platforms, Pilots projects, Test beds	Actions to promote digital skills: education, vocational training, company involvement, research programmes, academia	Complementary measures (e.g. tax incentives, development loans)	Contact Person and title, contact email, postal address
1.	**Austria**	Industrie 4.0 Oesterreich http://plattformindustrie40.at/ Digital Roadmap for Austria https://www.digitalroadmap.gv.at/	The initiative was founded in 2015 with the aim to foster collaboration among all stakeholders s facilitate new technological developments and innovations in the context of digitization and thereby to find sustainable solutions to challenges faced by companies, research institutions and society as a whole. The initiative was founded by the Federal Ministry for Transport, Innovation and Technology, the association for the Electrical and Electronics Industries, the association of Metaltechnology Industries, the Austrian Federal Chamber of Labour, the Austrian Trade Union for Production Workers and the Federation of Austrian Industries.	The objectives are creating strong working groups: Smart logistics; Pilot factories; Norms & Standards; Research, Development and Innovation; The Human in the Digital Factory; Qualification & Skills' and Regional strategies.	In Austria exists a well-established ecosystem of Competence Centers for various relevant fields (e.g. funded in the COMET scheme). Universities and other RTOs have a high level of relevant competences; some operate teaching and demonstration labs. In 2015, the first Pilotfabrik (Pilot factory) was launched. As of March 2017 the call for two Pilot factories is open.	The Qualification & Skills working group under Austria's Industry 4.0 initiative aims to find ways of continuous training and education to meet growing demands resulting from Industry 4.0 for employees and job-seekers as well as young people in training. The workshop focuses on identifying key qualifications and competencies necessary for Industry 4.0, digital infrastructure in training and education, digital skills of teachers and the recognition of non-formally and informally acquired competences.	Tax incentive for RDI activities of private companies. Support programmes for high-tech start-ups. Subsidies for SME investing in Industry 4.0 technologies.	Roland Sommer, Executive Director Industrie 4.0 Österreich Roland.Sommer@plattformindustrie40.at Dipl.-Ing. Dr. techn, Ingo Hegny, Austrian Ministry for Transport, Innovation and Technology ingo.hegny@bmvit.gv.at

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2.	**Belgium**	MADE DIFFERENT – Factories of the future http://www.madedifferent.be/ https://www.digitalwallonia.be/made-different-digital-wallonia/ Industrie 4.0 https://www.vlaanderen.be/nl/publicaties/detail/vision-2050	The Made Different action was supported by the Government of Flanders and coordinated by Sirris/Agoria, with partners from the other major sectorial organisations. Since the beginning of 2017, Made Different Digital Wallonia has been launched in the context of Digital Wallonia. This action will be rolled out in collaboration with sectorial organisations, competence centres. In February 2017, in the context of the Vision2050, the Government of Flanders started a coordination action to support the transition towards Industrie 4.0.	The objectives are to increase overall competitiveness of the manufacturing industry through 7 crucial transformations: World-class production technologies; End-to-end engineering; Simultaneous product and production development; Human-centred production; Networked factory; Eco-production and Smart production process innovation	The initiative entails raising awareness, providing information and offering specific guidance following seven paths, each of which spotlights one of the seven necessary transformations companies need to undergo to become real 'Factories of the Future'. Pilot lines/innovation hubs/demo centres will be developed as one of the main actions.	Special attention is paid to staff involvement, creativity and autonomy in a human-oriented approach as well as research programmes in public-private partnerships There is a strong link with the parallel support of the transition 'lifelong learning and a dynamic professional career'.		Walter Auwers Business Unit Manager Advanced Manufacturing Walter.auwers@sirris.be Fanny Deliège, Digital business and transformation ambassador, Digital Wallonia Fanny.Deliege@adn.aei.be Leo Van de Loock Transitiemanager Industrie 4.0 leo.vandeloock@vlaio.be

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3.	**Bulgaria**		Bulgaria has a national policy initiative on digitising industry under preparation. Expected to be launched in 2017, the initiative is supported by the Ministry of Economy, together with the Ministry of Education and Science, Ministry of Transport, Information Technology and Communication, with the participation of research institutions, companies, universities, professional organizations and NGOs.	The initiative brings together industrial, academic and public stakeholders for implementation of Industry 4.0 in Bulgaria.				Ministry of Economy

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4.	**Croatia**	Digitizing impulse 2020 (currently under preparation)	Creation of smart companies and digitisation of business and production processes in order to increase the overall quality, reduce production costs and to increase the flexibility and efficiency of production	The objectives are: Networking and digital connectivity; Education of workforce for Industry 4.0; Efficient use of resources; Digitisation of public administration; Enactment of legal regulations; Creation of technical standards and security of systems and data	Some of the pilot projects are: SUPRACONTROL, solution for electrical and telecom substation monitoring, FILIX, manufacturing of lighting products, THE-CUT, dies for injection moulding, RIMAC AUTOMOBILI, smart factory for electric automotive industry, etc.	The government should develop a plan for education and lifelong learning trough which participants will acquire digital skills.	Launching projects: Lean and Smart cities, Lean and Smart Ministry of Economy, Entrepreneurship and crafts, Lean and Smart Faculty of Mechanical Engineering and Naval Architecture and Lean and Smart Hospital.	Mario Antonić, State Secretary, Ministry of Economy, Entrepreneurship and Crafts mario.antonic@mingo.hr Nedeljko Stefanić, Head of Industrial Engineering Department, Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb nstefan@fsb.hr

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5.	**Cyprus**	National Integrated Industrial Strategy 2017-2030 (currently under preparation)	Initiative is supported by the Ministry of Energy, Commerce, Industry and Tourism working together with the Cyprus Chamber of Commerce of Industry (CCCI) and the Cyprus Employers & Industrialists Federation (OEB). Additional involvement of public and private stakeholders (i.e. other ministries, chambers, associations, business community, academia). The goal of the Government is to substantially enhance the overall effort by facilitating, supporting, completing, and connecting both existing and new European and national initiatives towards this direction, by both the private sector and the state; and integrate them under a national strategy for industry, and an action plan incorporating concrete policies, measures and actions with an aim to modernize and digitize industry.	The objective is to increase the industry's productivity, innovation, exports and its contribution to the country's Gross Domestic Product. Key challenges are to increase the growth rate of industry, solve its structural problems, and re-industrialize it through particular emphasis on digitization, utilising the country's available resources and the European "Industry 4.0" system, the Manufacture platform and the promotion of clusters. Actions in the horizontal areas of ICT/ KETs/cloud computing services, Industrial Skills Enhancement, Improvement of Industry / Business Environment, Enhancement of Access to Finance and Facilitation of Access to Markets.	Enhancement of digital and industrial skills, integration of key enabling technologies, investment in research, development and innovation and upgrading business and industrial models are means that can be utilised for the development of highly competitive, high value-added, innovative products and services that will contribute to the extroversion of Cypriot businesses and boost exports of our country.	Utilisation of the National Coalition for Digital Jobs already in place. Under consideration: New professional certificates, Vocational training esp. for retrofitted industries through programmes conducted by the Cyprus Productivity Centre and the Human Resource Development Authority, New academic programmes (secondary & tertiary education), Recruitment of specialized scientific personnel from third countries, etc.	Tax incentives for investing in innovative SMEs already in place (new amending law was approved in December 2016 that gives incentives to individuals to invest in innovative SMEs including start - ups). Under consideration: Tax incentives on R&D&I activities & expenditure. Alternative ways of financing, co-investment mechanisms, ex ante research on appropriate financial instruments in the pipeline. New loan products and facilities for industry and innovation.	Dr Stelios Himonas Permanent Secretary Ministry of Energy, Commerce, Industry and Tourism 6, Andreas Araouzos Str.,1421 Nicosia. Tel.: +35722867196 Fax: +35722374445

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6.	**Czech Republic**	Průmysl 4.0 / Industry 4.0 http://www.mpo.cz/en/industry/industry-four/	The Iinitiative was prepared by the Ministry of Industry and Trade and was approved by the Government in August 2016. The iInitiative involves different ministries according to relevant measures, business associations, trade unions and academia. Industry 4.0 Initiative is has become a part of the newly established Alliance Society 4.0.	The goal of the Initiative Industry 4.0 is to show possible trends and outline measures that would not only boost the economy and industrial base in the Czech Republic, but also to help prepare the entire society to absorb this technological change.	It indicates measures to support investment, technological prerequisites and vision, requirements concerning applied research, standardization, safety/security/reliability;	It considers the impacts on labour market, skills and social impacts, as well as impacts on education system. It includes measures to support human resources development and life-long learning.	It deals with cyber security and relevant legislation, application of innovative technologies in energy, transport and Smart Cities, smart devices & technology innovation.	Ministry of Industry and Trade of the Czech Republic Na Františku 32 110 15 Praha 1

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7.	**Denmark**	Manufacturing Academy of Denmark (MADE) http://made.dk/	MADE is governed by a board consisting of senior representatives from industry, academia and RTO's, where Industry has the majority vote. It brings research institutions, RTOs and companies from different industrial segments together. It is a PPP and is financed by Industry, Universities, RTO's, Public and Private Funds and Foundations. MADE has two main programs where industry and academic partners are working together: 1. MADE SPIR which aims to develop Advanced Manufacturing technologies and strengthen the Danish manufacturing ecosystem (suppliers, end user companies, research and education) 2. MADE Digital which is a research and innovation platform aimed at developing a Danish approach to Industry 4.0, where there is focus on many of Danish SME's.	The objective is to support and strengthen the manufacturing industry in Denmark through applied industrial research, innovation and education, enabling increase productivity and growth.	SME's and larger industrial companies work together in joint research projects sharing research resources, knowledge and experience to develop new technology and management approaches which are implemented in industry. Knowledge is disseminated to the wider industry through workshops and events focused on sharing the state of the art research and cases from industrial companies who have implemented the latest research. Furthermore, MADE Demonstration and Cluster projects provide SME's with training, support and prototype development services to implement the latest research.	MADE develops and implements digital manufacturing solutions through applied industrial research and innovation projects which involve engineers, technicians, Ph.D. students, Master and Batchelor students and technician trainees.		Merete Norby, International Senior Consultant MADE, Mnorby@made.dk Lisbeth Heyde Head of Secretariat, lheyde@made.dk Nigel Edmondson Managing Director, nfedmondson@made.dk MADE Industriens Hus Vesterbrogade 1E, 4. sal 1620 København V

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8.	Estonia							

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9.	**Finland**	Under preparation	Minister of Economic Affairs set up a task force with a mandate to prepare a program for Digitising Finnish Industry. Task force's work will be ready by autumn 2017. Digitising Finnish Industry program will bring together existing initiatives from the public and private sector. Current activities involve large private and public investments and they cover the main innovation hubs and ecosystems from the whole Finland.	The main objectives of the Digitising Finnish Industry program will be to make the digital opportunities available to all companies in a concrete form, and to accelerate the innovation of the cutting edge companies.	Digitising Finnish Industry program will build on the existing hubs, centres, platforms, pilots and test beds. It will strengthen their collaboration internationally and launch new initiatives where needed.	Universities, other research and education institutions, ministries, cities and companies will be closely involved in the identification of needed skills and actions.	One of the focus areas of the Digitising Finnish Industry task force will be dynamic market regulation, tax policies and new financing instruments.	Mrs. Ilona Lundström Director-General Ilona.lundstrom@tem.fi Mr. Tapio Virkkunen Development Director tapio.virkkunen@tem.fi Ministry of Economic Affairs and Employment, P.O. Box 32, 00023 Government, Finland

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10.	**France**	Alliance pour l'Industrie du Futur http://www.industrie-dufutur.org	Created in July 2015, the initiative brings together industrial, academic and public stakeholders at national and regional levels. It aims at modernising French Industry and helping companies anticipate the digital transformation of the economy. The steering committee is chaired by the Secretary of State for Industry.	The initiative is based on five pillars: Expand technological offering; Support SMEs through the transformation phase; Provide training to develop the new skills needed; Promote the Industry of the Future plan in France and abroad; Support international cooperation on standards.	Specific support has been provided to more than 3400 SMEs. The Alliance brings together all stakeholders to build technological roadmap and ensures coordination between platforms. A map of 200 use cases has also been established.	One of the priority paths is preparing people for the industry of the future including interdisciplinary research programmes and academic chairs focusing on the role of human being in this new paradigm. A working group is in charge of anticipating the new skills that will be needed and ensuring relevant training program exist.	Financial support : - 5€B in tax incentives; - 2.2€B of Industry of the Future unsecured loans are being distributed to help SMEs invest in Industry of the Future technologies.	Tahar Melitti, Directeur général de Alliance pour l'industrie du futur, tahar.melliti@industrie-dufutur.org Sawsen Ayari-Pouliquen, Chef de Projets, Alliance Industrie du Futur sawsen.ayaripoulique n@industrie-dufutur.org

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11.	**Germany**	Plattform Industrie 4.0 http://www.plattform-i40.de	Plattform Industrie 4.0 was launched at the 2013 Hannover Fair with the aim to prepare German industry including SME`s for the future of production, aligning requirements of being leading in the market and capabilities of being leading suppliers. It is based on the needs of future production such as efficiency, time to market and flexibility following use-case based approach with scenarios describing the future, implementation examples from SMEs/large industry describing the actual status and test-infrastructure to support esp. SMEs on way towards the future. Funding of Industry 4.0 activities is secured by the Federal Ministry for Economic Affairs and Energy (BMWi) and the Federal Ministry of Education and Research (BMBF).	Technological innovation based on the main pillars such as horizontal integration along value networks, end-to-end engineering, vertical integration including security aspects and considering new ways of working, education and legal aspects. High-level Industrie 4.0 advisory boards with all relevant stakeholders: government, trade union, industry, associations and scientific community. Strong working groups: Reference Architectures; Norms and Standardisation; Research and Innovation; Security of Interconnected Systems; Legal Framework and Work, education and training.	The online map Industry 4.0 (Landkarte) with about 250 application examples shows where Industry 4.0 is already being applied in practice today (testbeds) [BMBF supports the testing of innovative Industrie 4.0 components by SMEs at existing testbeds with a specific funding announcement.]; The new online library Industry 4.0 (Online-Bibliothek) contains guidelines, publications and studies and offers simple and systematic access.	The “Work, education and training” working group aims to identify the current challenges and the actions that are needed in the areas of apprenticeships and continuing education in order to preserve and strengthen the productivity and competitiveness of business enterprises in the future and to improve the working conditions, professional development opportunities, and the employment perspectives in conjunction with this.		claire.lecasse-nelles@ifok.de sarah.fischer@ifok.de geschaeftsstelle@plattform-i40.de

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12.	Greece							

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13.	**Hungary**	National initiative IPAR4.0 Technology Platform https://www.i40platform.hu	The Industry 4.0 National Technology Platform was established under the leadership of the Institute for Computer Science and Control (SZTAKI), Hungarian Academy of Sciences, with the participation of research institutions, companies, universities and professional organizations and with the full support and commitment of the Government of Hungary, and specifically that of the Ministry of National Economy.	The primary focus is on the automotive sector. Additional objectives are to act as a lobbying forum and an advisory body to the Government in shaping the digitalisation policy.	7 strong working groups: Strategic planning; Employment, education and training; Manufacturing and logistics; ICT technologies (safety, reference architectures, standards); Industry 4.0 cyber-physical pilot systems; Innovation and business model and Legal framework.	The Employment, education and training working group has as its main task to cover all educational aspects of I4.0 which determine the highest priority preconditions and implications for its implementation in practice.		Prof László Monostori, "IPAR4.0 PLATFORM", Hungarian Industry 4.0 Chairman, monostor@sztaki.hu 13-17. Kende utca, Budapest, H-1111

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14.	**Ireland**	National Digital Strategy (NDS) http://www.dccae.gov.ie/en-ie/communications/topics/Digital-Strategy/Pages/default.aspx	National Digital strategy was launched in July 2013. Enterprise 2025, the Government's long-term enterprise policy is an ambitious strategy to deliver economic growth over the next decade, 2015 to 2025. Successful delivery and implementation of the DAE (Digital Agenda for Europe) in Ireland is a Government priority.	This National Digital Strategy (NDS) is a foundation step in helping Ireland to reap the full rewards of a digitally enabled society. It is part of the overall Government commitment to a more digitally empowered society which involves a suite of complementary national measures. The Trading Online Voucher Scheme targets existing small businesses (10 employees or less) and provides training, mentoring and grants to support transformation to online trade. Science Foundation Ireland through National Research prioritises areas of Manufacturing, Competitiveness, Processing Technologies and Novel Materials.	The Digital Hub Development Agency was established in 2003 to develop Ireland's digital enterprise sector through the creation of a cluster of enterprises. The Digital Hub supports 100 or so businesses at a time. Technology Centres such as The CeADAR (Data Analytics Centre) in UCD, The IC4 (Cloud Computing Centre) in DCU,The Learnovate Centre in TCD. IDA is facilitating its clients drive digitisation projects here through R&D supports in everything from platform development to robotic process automation.	Skillnets employer – led programme, National ICT Skills Action Plan2014-2018, Nine new Regional Skills Fora established.	The Trading Online Voucher Scheme awards up to €2500 of matching funding to small business to develop their ecommerce capability.	(NDS) Finola Rossi, DCCAE

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15.	**Italy**	Piano Nazionale Industria 4.0 http://www.sviluppoeconomico.gov.it/index.php/it/ http://www.mise.gov.it/index.php/it/industria40	Founded by the council of Ministers. Innovative investments: • +10bn EUR private investments increase • +11.3bn EUR R&D&I of private expenditure • +2.6bn EUR volume of early stage investments Public instruments at support: • +0.9bn EUR reform and refinancing of Guarantee Fund • +1bn EUR development Contracts focused on I4.0 • +0.1bn EUR investment on digital sales chains	Stimulate private investment in I4.0, R&D&I, Venture capital and Start-ups, develop I4.0 Skills and Create Competence Centers and DIH. Nine technology drivers: Advanced manufacturing solutions; Additive manufacturing; Augmented reality; Simulation; Horizontal/vertical integration; Industrial internet; Cloud; Cyber-security and Big data and analytics	Selected DIH located at Confindustria's and R.E.TE, Imprese Italia's branches. I4.0 Competence centres focused on specific and complementary technology drivers.	There are 200.000 academic students, 3.000 managers qualified on I4.0 topics, 100% students attending ITS on I4.0 topics and 1.400 PhDs focused on I4.0 in National Competence Centre	30% of tax deduction for investments up to 1€M start-ups and innovative SMEs.	Mr Stefano Firpo, Director General for Industrial policy, competitiveness and SMEs Marco Taisch, Polytechnic University Milan

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16.	**Latvia**	National Industrial Policy Guidelines 2014 -2020. https://em.gov.lv/files/uznemejdarbiba/finl_en.pdf	The policy was implemented by the Ministry of Economics along with sectorial ministries, especially in close cooperation with Ministry of Environmental Protection and Regional Development- responsible for implementing policy in three areas - environment protection, regional development as well as information and communication technologies.	The objective is the transformation of economy towards innovation and creation of higher value added products and knowledge. Other targets are Intensive services; General competence raising; Digitalisation awareness promotion among SME's; Close collaboration of public and private sector.	Various activities to promote particularly SME's innovation capacity are implemented by EU structural funds 2014.-2020. funding, for example, "Clusters program" within Latvian ICT cluster (silver label) is running, also "Competence centres" program within IT Competence Centre is running. Major focus is on information and education promotion using "Training program" as main skills development instrument. Riga IT Demo centre has been developed in 2012 Within Latvian ICT cluster. IT Demo centre main task is to develop the Latvian IT scene and promote digitalisation with good practices, examples and services.	EU structural funds activities: -16,7€M: ERDF 9€M, private 7,7€M for activity "Promote training of employees" -2,7€M: ERDF 2€M, private €M 0,7 for activity "ICT and non-technological training" for one project Training on ICT skills One of the newest initiatives is MoU signed between Ministry of Environmental Protection and Regional Development and Latvian Information and Communication Technology Association on cooperation in the process of digital transformation.	R&D Tax deduction; Tax deduction for start-up companies;	Kristaps Soms, Director of Entrepreneurship Competitiveness Department, Ministry of Economics Kristaps.Soms@em.gov.lv

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17.	**Lithuania**	Pramone 4.0 http://www.industrie40.lt/platform/	In May 2017, the Lithuanian government approved the establishment of a national "Industrial Competitiveness Commission 'Pramonė 4.0'" as the management basis of the National Industry Digitalisation Platform "Pramonė 4.0" ("Industry 4.0"). In March 2014, the Lithuanian government approved the "Information Society Development" program 2014-2020, the "Digital Agenda for the Republic of Lithuania". Goal: improve the quality of life for the Lithuanian population and the companies' business environment by using the opportunities offered by the ICT. The implementation of the Programme is coordinated by the Ministry of Transport and Communications.	Aim: support industry in the integration of digital solutions and new technologies. A strategy document for the implementation of Industry 4.0 in Lithuania is under preparation.			Innovation vouchers: support companies in benefiting from R&D services or use expertise maintained at research institutions Allocated budget:10.1M EUR	Ministry of Economy of the Republic of Lithuania, Industry policy division Gricius Vaidas Ruzgys Karolis Gintaras Vilda Brigyte Laura

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18.	**Luxembourg**	Digital4Industry http://digital4industry.lu/	The platform 'Digital4Industry' has been launched in June 2016 by FEDIL – the Voice of Luxembourg's Industry, Luxinnovation – the National Agency for Innovation and Research and the Luxembourg Ministry of the Economy	The Platform 'Digital4Industry' targets the local manufacturing industry, SME's as well as large enterprises. It has three main objectives: 1. Creating awareness and informing about the risks and opportunities related to the implementation as well as the non-implementation of industry 4.0; 2. Identifying specific concerns and challenges by the local industry and working on solutions to enable early adoption of Industry 4.0 concepts; 3. Initiating collaborative pilot projects to showcase value creation by the implementation of practical Industry 4.0 solutions.				FEDIL – The Voice of Luxembourg's industry B.P 1304 L-1013 Luxembourg Luxinnovation GIE 5 Avenue des Hauts-Fourneaux L4362 Esch-sur-Alzette Ministry oft he Economy L-2914 Luxembourg

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19.	**Malta**	No initiative						

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20.	**Netherlands**	Smart Industry Dutch Industry fit for the Future http://www.smartindustry.nl	The initiative was created in April/Nov 2014. It is a 4 year Jointed program office with Ministry Economic Affairs, FME (industrial association), TNO, Chamber of Commerce and ICT-Nederland). There are 4 action lines: awareness, fieldlab, skills/knowledge and ICT. Each of the fieldlabs run their own (regional) fieldlab program.	Objectives are: Awareness at 80% and used from 14% (2014) to 40% (2018) of all SME in manufacturing and adaption of business value chains; Capitalising on existing knowledge (TRL5-8) Accelerating use of ICT (standards, big data & cyber security). Skills & Social Innovation	29 fieldlabs (end 2016) (10 fieldlabs in 2015) 6 clusters on ICT use, robotics, additive manufacturing, composite production, maintenance, others with 1 fieldlab in each region. Budget is so far 40-60 Million Euro.	Smart Industry's agenda focuses on supporting Smart Industry with awareness lectures/workshops (20.000 visitors) academic research agenda/calls, 4 skills actions (life-long-learning, involvement vocational/higher educations, job training) and ICT big data (data sharing), cyber security and standardisation efforts.	1-Future funds (2/3 loan+1/3 subsidy). 2-Fieldlab funding from EFRO, regional funds and H2020 projects. Plans for vouchers for SME. Scientific call for 4 Million lead to 6 research projects. Yearly Smart Industry event in February with 500-800 visitors	Egbert-Jan Sol, TNO Smart Industry, Egbert-Jan.Sol@TNO.nl Jeroen Heijs, MT Directorate for Top Sectors & Industrial Policy, Ministry of Economic Affairs, Smart Industry, j.heijs@minez.nl

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21.	**Poland**	Platforma Przemysłu Przyszłości – PPP (Future Industry Platform)	Currently under preparation by the Ministry of Economic Development. The PPP is one of the strategic projects included in the Polish midterm development strategies, called Responsible Development Strategy. The estimated launch of the initiative falls in 2018.	The PPP main tasks will be to integrate private and public stakeholders in the field of industrial transformation and to build awareness among Polish enterprises about the technological and business opportunities carried by the Industry 4.0. The new organisation will also advise, demonstrate and help companies with the application of new solutions thanks to digital solutions as well as the network of competence centres. Industrial Transformation Team: at the core of the Polish Industry 4.0 Platform set up in 2016 by the government comprising ministry and industry representatives focusing on 5 relevant development areas of digital technologies	One of the 5 pillars of Poland's economic development strategy is reindustrialization which foresees: Partnership for the strategic branches of the economy, National Intelligent Specializations, Clusters and industrial valleys and Foreign investments. Ultimately, polish innovation efforts concerning industrial transformation will be integrated under Polish Industry 4.0 Platform.	The Ministry of Digital Affairs prepared "The framework catalogue of digital competences". It comprises four actions including training activities for development of digital competences with allocation of 40€M (divided into two competitions dedicated to NGOs). The working group in Ministry of Economic Development focuses on education and vocational training. The main task is to cover all educational aspects of Industry 4.0.	The Polish Development Fund established (under the *Start in Poland* programme) a platform of equity investments in innovative companies - PFR Ventures. It will be the largest capital investment platform in CEE region. PFR Ventures will be responsible for managing the investment funds of venture capital worth 2.8 billion PLN (630€M). It will support the development of the Polish VC and tech market.	Ms Jadwiga Emilewicz, Undersecretary of State in the Ministry of Economic Development Jadwiga.emilewicz@mr.gov.pl Ministry of Economic Development Pl. Trzech Krzyży 3/5 00-507 Warszawa Poland Mr Jan Filip Staniłko, Deputy Director of Innovation Department of Ministry of Economic Development Jan.stanilko@mr.gov.pl Ministry of Economic Development Pl. Trzech Krzyży 3/5 00-507 Warszawa Poland

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22.	**Portugal**	Industria 4.0 www.i40.pt	The initiative was founded in January 2017 by the government board comprising several ministries. Up to 2.26€B in incentives, via Portugal 2020, for the development of awareness and adoption of technologies associated with the Industry 4.0 concept, in the next four years.	The initiative was built according to bottom-up approaches that lead to the definition of 60 measures organized in 6 strategic vectors: Human capital qualification, Technological cooperation, Startup i4.0, Financing and investment incentive, Internationalization, Standards and regulation.	Fabtec, learning factory with demonstration of innovative solutions to the industrial sector. 4AC Industria 4.0 – accelerator, incubator, prototyping, to provide industry of software and hardware in turning ideas into products, during product development and scale-up phases	By 2020, this initiative will train an additional 20,000 people in ICT on top of the current ICT skilled professionals. Developed in collaboration with the private sector, this initiative will address the lack of technical expertise in ICT area.		Susana Escária Chief of Cabinet of Secretary of State Industry Ministry of Economy susana.escaria@mecon.gov.pt Elísio Oliveira Economic Adviser Cabinet of Secretary of State Industry Ministry of Economy elisio.oliveira@mecon.gov.pt Helena Duarte Advisor to the Board of Directors Portuguese Agency for Competitiveness and Innovation helena.duarte@iapmei.pt

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23.	**Romania**	Manifesto for Digital Romania http://gov.ro/en/news/address-by-prime-minister-dacian-ciolos-at-the-international-digital-romania-4-0-industry-forum	The manifesto was launched in November 2016 by Prime Minister Dacian Ciolos. Manifesto commits to a set of principles aligned with the vision for a digital future. It brings together decision-makers, the ITC and creative industries, communities of programmers and entrepreneurs, civic and professional associations.	The objective is to adopt a coordinated, integrated, efficient and transparent strategy for technological development, focusing on efficient use of public money, administrative simplification, wide access to participation in public tenders - in close consultation with industry, civil society and citizens	It will support projects, services and data that are open by default; agile, adaptable and flexible solutions; cutting-edge technology; and continuous innovation in the field of hi-technologies.	It provides a framework for digital education and training for all citizens.		

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24.	**Slovakia**	Koncepcia inteligentného priemyslu pre Slovensko (Conception of Smart Industry for Slovakia) http://www.rokovania.sk/Rokovanie.aspx/BodRokovaniaDetail?idMaterial=26016	The Conception was approved by the Government in October 2016 by establishing a platform of smart industry with working groups in relevant areas. In March 2017 the first meeting of the platform (representatives of the government, businesses and academia) was held. By the end of 2017 there is a plan to draw up and approve action plan with concrete measures and schedule.	5 targeted areas: 1. R&D and innovation 2. Reference architecture, standardization and legal framework conditions 3. Security of networked systems 4. Labour market and education 5. Information and publicity, financial coverage				Ministry of Economy of the Slovak Republic

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25.	**Slovenia**	Slovenian Digital Coalition – digitalna.si http://www.digitalna.si/si/	The initiative was launched at the end of the 2016 with the Statement on the establishment and participation in the Slovenian digital coalition - digitalna.si It was signed by the Prime Minister of the Republic of Slovenia and other representatives of the key national stakeholders (from industry, civil society, education, research and development and the national digital champion). The coalition is an open coordinating and consultative forum of stakeholders to achieve the development of cross-sectorial multiplier effects that will accelerate the development of the digital society with the coordination, guidance and participation in a common effort for digital transformation. It will be guided by the board, made up of the elected or delegated representatives from all of the stakeholder groups.	The objective of the coalition is to support national digital transformation with the aim of placement of Slovenia as a reference environment for introducing innovative approaches in the use of digital technologies.	Further research and innovation partnership is establishing for activities on: Smart Cities and Communities, Circular economy, Food, Tourism, Smart Buildings and homes and Health – Medicine. Partnership is to be established between research institutions and companies to cooperate on each of thematic areas to made global competitive products. Based on these partnership pilot projects will be established.	By 2020, this initiative, developed in the collaboration of the private public sector, will address the main gaps for digital transformation. The DigitAgenda2016 with the Chamber of Commerce and industry of Slovenia partnership, as stakeholder of coalition – digitalna.si, was already designed.	Measures to support digitisation are in the process of the preparation.	Marjan Turk General Director of Directorate for Information Society, Ministry of public administration marjan.turk@gov.si

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26.	**Spain**	Industria Conectada 4.0 http://www.industriaconectada40.gob.es	The initiative was launched in 2015 by Ministry of Economy, Industry and Competitiveness. The aim is to ensure knowledge of Industry 4.0 technologies and skills development of Industry 4.0 in Spain, encourage collaboration between companies from various industrial sectors, technology companies, research centres and other entities in order to promote developing of 4.0 solutions adapted to the industrial needs.	The objectives are to increase value added and employment in Spanish industrial sector; to strengthen and develop digital solutions for the Spanish industry; to develop competitive and differential levers to foster Spanish industry. 4 main lines: Awareness and training; Collaborative Environments and platforms; Boost digital enablers; Support to the digital transformation of the industrial companies.	A national innovation digital hub will be implemented during 2017. There are two programmes included in 2017 in Industria Conectada 4.0 action plan: 1. HADA is an online Industry 4.0 self-assessment tool. 4.0. 2. ACTIVA INDUSTRIA 4.0 is a specialized and customized consulting support program that will be carried out by recognized business and technology consulting firms with experience in Industry.	Industria Conectada 4.0 promotes the incorporation of related Industry 4.0 and digital enablers on job training in order to ensure that the needs of industrial companies with regard to Industry 4.0. are met and supports the inclusion of content and specific courses of Industry 4.0 in the academic curricular training.	Providing financial support: 97€M in development loans reinforcement of digital transformation initiatives.	Fernando Valdés Verelst. Deputy-Director for Institutional Coordination and SME's innovation programmes. f.valdes@mineco.es

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27.	**Sweden**	Government strategy: Smart Industry http://www.government.se/information-material/2016/04/smart-industry---a-strategy-for-new-industrialisation-for-sweden/ National research and innovation program for smart manufacturing: Produktion2030 www.produktion2030.se	Produktion2030 is a Swedish PPP, bringing together industry, academia and Research institutes. Annual funding: 5€M. Funding agency: VINNOVA. Produktion2030 focus: Digitalisation and Resource Efficiency in manufacturing. Produktion2030 operates five instruments: Projects, Tech transfer to SMEs, Education, Mobility and Internationalization and analysis. Produktion2030 is running since 2013 Duration: ongoing . Government body responsible: VINNOVA	Produktion2030 objectives: sustainable and competitive manufacturing industry in Sweden 2030. Key targets for Produktion2030: manufacturing industry in Sweden.	Several potential DIH: e.g. Chalmers Smart Industry Lab. Industrial Platforms: - Pilot projects: Vinnova is funding several Digital industry pilots. Vinnova funds Competence centers (Winn Excellence centers), Foundation for strategic research also funds Competence centers. Vinnova is also funding 17 research and innovation programmes, such as Produktion2030. Industry, academia and institutes (RISE) offer a large number of testbeds. Eg Ericsson Studios, ABB Synerleap, Chalmers Smart Indsutry, Swerea IVF Additive Manufacturing.	Agency for regional growth and development funds digitalisation awareness projects for SMEs. Digital Skills: Digilyftet. 10 universities in tech promote several courses in advanced manufacturing and digitalisation in industry. Produktion2030 is developing new courses for Master-levels: Autonomous Robots: Man-Robot co-operation, Augmented Reality, Visualization and Interfaces.		Ministry of Enterprise and Innovation: Mikal Damberg Programme Manager Produktion2030: Cecilia Warrol, Cecilia.warrol@teknikforetagen.se

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28.	**United Kingdom**	Green paper on Industrial Strategy https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/586626/building-our-industrial-strategy-green-paper.pdf	The green paper was published in January 2017 by the Government of the United Kingdom.	The objective of the modern industrial strategy is to improve living standards and economic growth by increasing productivity and driving growth across the whole country. The pillars are: investing in science, R&I; developing skills, upgrading infrastructure; supporting businesses to stand and grow; improving procurement; encouraging trade and inward investment; delivering affordable energy and clean growth; cultivating world-leading sectors; driving growth across the whole country; creating the right institutions to bring together sectors and places.	Investing an additional £4.7 billion (5.5€B) by 2020- 21 in R&D funding, and new National Productivity Investment Fund that will add £23 billion (26.9€B) in high-value investment from 2017-18 to 2021-22.	Through the Sainsbury Review and the Skills Plan, the Government has set out its plan to radically simplify the thousands of vocational qualifications into a smaller number of high quality new routes. £170m (198€M) of capital funding to the creation of prestigious new Institutes of Technology.		

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1.	**Switzerland**	*Public:* "Digital Switzerland" Strategy (Umbrella strategy on digitisation; not only focused on digitisation of industry) https://www.bakom.admin.ch/bakom/de/home/digital-und-internet/strategie-digitale-schweiz.html	At the heart of the strategy is the consistent utilisation of the opportunities of digitisation so that Switzerland can position itself as an attractive place to live and as an innovative, future-oriented location for business and research. The strategy builds on existing governmental resources. The investment of addition funds is not foreseen for the moment. As part of the strategy there exists a dialog on "Digital Switzerland". It aims to create a network with all stakeholders and guarantee cooperation between all federal levels of the administration and the private sector, civil society and academia.	Action areas and goals: the digital economy; data and digital content; infrastructure and environment; e-Government and e-Health; new forms of political participation; development of the knowledge-based society; security and trust; Switzerland's international position.	The Swiss Innovation park: The aim is to reinforce Switzerland's leading position as a location for innovation and maintain the country's economic competitiveness. The innovation park began operations in early 2016, with two hub sites centred on the two federal institutes of technology in Zurich and Lausanne and three network locations in Aargau, Northwest Switzerland and Biel. The Confederation plays a subsidiary role in the innovation park. The hubs sides will conduct research in a broad range of areas of relevance for Swiss businesses, including digital innovation.	Whether digitization entails a need for adjustments of the current education and training system or research programs is currently being reviewed.		Business Office Information Society (GIG) infosociety@bakom.admin.ch Zukunftstrasse 44 2501 Biel / Bienne Switzerland

		Private: Initiative “Industry 2025” http://www.industrie2025.ch/	The initiative “Industry 2025” was founded in June 2015 by the industry associations Swissmem (Manufacturing Industry), SwissT.net (Technology), Electrosuisse (Electro/Energy) and asut (Telecom). Currently the initiative has 31 partners with knowledge and experience in different areas of industry 4.0. The initiative is financed by the associations and the partners and is a Not-for-profit organisation.	The mission is to promote the topic “industry 4.0” in Switzerland by informing, raising awareness and bringing together the different industry 4.0 players. The target group is the producing industry, e.g. machine, food and pharmaceutical industry. In addition, there is a focus on SME. Fields of action: 1) Networking and knowledge transfer 2) Support for industry 4.0 novices 3) Preparation of relevant topics (in working groups) 4) Innovation support	Annually organised industry 4.0 and R&D congresses, coordination platform for R&D projects, cooperation with and promotion of different industry 4.0 projects and hubs in Switzerland Working groups on specific topics	Annually organised conferences, seminars with different topics, on-site workshops, educational trips, surveys, network of R&D organizations		Initiative “Industrie 2025” c/o Swissmem Pfingstweidstrasse 102, Postfach CH-8037 Zürich Philip Hauri info@industrie2025.ch