

NORDIC WORKING PAPERS

5G ACTION PLAN 2018-2020

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Policy goals	Deliverables	Sector	Lead
Encourage the development of new testing facilities, including test beds	<ol style="list-style-type: none"> 1) Policy survey on the implementation of 5G network in the countries and mapping of national policies (regulation and legislation and supporting test facilities for 5G technology 2) Ensure availability of spectrum for 5G testing (licenses) through policy coordination among Nordic and Baltic policy experts 3) Identifying potentials for closer 5G collaboration and synergies for coordination and collaboration between Nordic and Baltic 5G test facilities 	MR-DIGITAL	Swedish Ministry of Enterprise and Innovation
Ensure the technical coordination of 5G frequency bands within the region	<ol style="list-style-type: none"> 4) Survey and policy dialogue on the implementation of 5G network in the countries 5) Technical coordination of 5G frequency bands and licenses among Nordic and Baltic policy experts (based on survey results) 	MR-DIGITAL	Swedish Ministry of Enterprise and Innovation
Remove obstacles to expansion of the 5G network, in particular deployment of base stations and antennas	<ol style="list-style-type: none"> 6) Joint roundtable meeting with Nordic and Baltic tele operators and other relevant stakeholders. Identifying obstacles in national regulation and legislation for the expansion of 5G network incl. cross-border interoperability 7) Exchange knowledge and policies regarding sustainable business models securing 5G roll-out and high-speed broadband to all areas 	MR-DIGITAL	Swedish Ministry of Enterprise and Innovation
	<ol style="list-style-type: none"> 8) When beneficial, prepare common positional papers on legal and technical matters of 5G roll-out to the European Commission 	MR-DIGITAL	Nordic-Baltic expert group on 5G

5G ACTION PLAN 2018-2020

TRACK 2: APPLICATION

Policy goals	Policy area	Deliverables	Sector(s)	Lead
Encourage and monitor the development of 5G, specifically for certain sectors	Transport	9) Mapping and promotion of Nordic and Baltic trials and testbeds for intelligent transport solutions based on 5G under the following themes: <ul style="list-style-type: none"> • Sustainable and climate-efficient transport solutions • Smart sea routes, connected vessels and harbor logistics • Intelligent traffic systems and connected vehicles • Remote piloted aircraft systems (drones) 	MR-DIGITAL	Finnish Communications Regulatory Agency (FICORA)
		10) Encouraging cross-border cooperation in trialing and development of 5G for transport connecting Nordic and Baltic partners from industry, academia and authorities around common trials in 1-2 joint ecosystem forums: <ul style="list-style-type: none"> • High level speakers on development of 5G for transport • Presenting and promoting Nordic and Baltic 5G trial activities for transport • Thematic sessions / Work shops 		
		11) Promoting Nordic smart and sustainable mobility in cities, rural areas and at the sea (first steps): <ul style="list-style-type: none"> • Quality of life through Nordic smart mobility and connectivity; calls for project outlines • Clusters as drivers of Nordic smart mobility and connectivity; matchmaking and calls for project outlines • Nordic urban mobility in 2050; Foresight analysis / discussion starter on smart mobility and connectivity in Nordic cities • Sea meets land; Collaboration between central maritime and onshore actors 		
Critical communications		12) Mapping of Nordic and Baltic use-cases and testbeds on emergency services based on 5G and recommendations to cross-border interoperability	MR-DIGITAL	Norway
		13) Exploring the possibility for cross-border cooperation in trialing and development of 5G technologies in critical communications		

5G ACTION PLAN 2018-2020

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Manufacturing industry	14) Mapping of Nordic and Baltic business-cases and testbeds based on 5G	MR-DIGITAL	Swedish Ministry of Enterprise and Innovation
	15) Promoting the application and testing of 5G in manufacturing industries (tbd) <ul style="list-style-type: none"> • Augmented reality for employees • Interconnected factories • Robust and low latency communications (e.g. robot control) 		
	16) Promoting new digital business models in Nordic industries with 5G as a key element through funding of joint Nordic events, partnerships and activities	MR-GROWTH	Nordic Innovation
Energy Environment, Agriculture Aquaculture	17) Exploring the possibility for a large joint research programme (NordGrid) ensuring continued high reliability and cost-effectiveness in the electricity system through smart grids and digital power management. <ul style="list-style-type: none"> • Nordgrid will be discussed at the seminar on 'New Nordic Energy Research – Adding Value to National Programs' to be held on October 25th 2018. 	MR-ENERGY	Nordic Energy Research in cooperation with Nordic Transmission System Operators (tbd)
	18) Mapping good examples on using digital monitoring of environmental protection and in the monitoring of food production in agriculture and aquaculture	MR-FJLS	(tbd)
	19) Exploring the possibility for cross-border cooperation in trialing and development of 5G technologies in environmental protection, agriculture and aquaculture		
Health and Welfare Technology	20) Mapping of Nordic-Baltic testbeds on connected digital health	MR-HEALTH	(tbd)
	21) Exploring perceived barriers and best solutions for application of connected health services in municipalities, regions and the industry		
	22) Supporting joint Nordic-Baltic partnerships and innovative trials developing 5G services through call for regions and municipalities who wants to implement new healthcare and care solutions		
Stakeholder dialogue on application of 5G	23) Annual stakeholder forum	MR-DIGITAL	(tbd)