5G Connecting the Nordic-Baltic Region
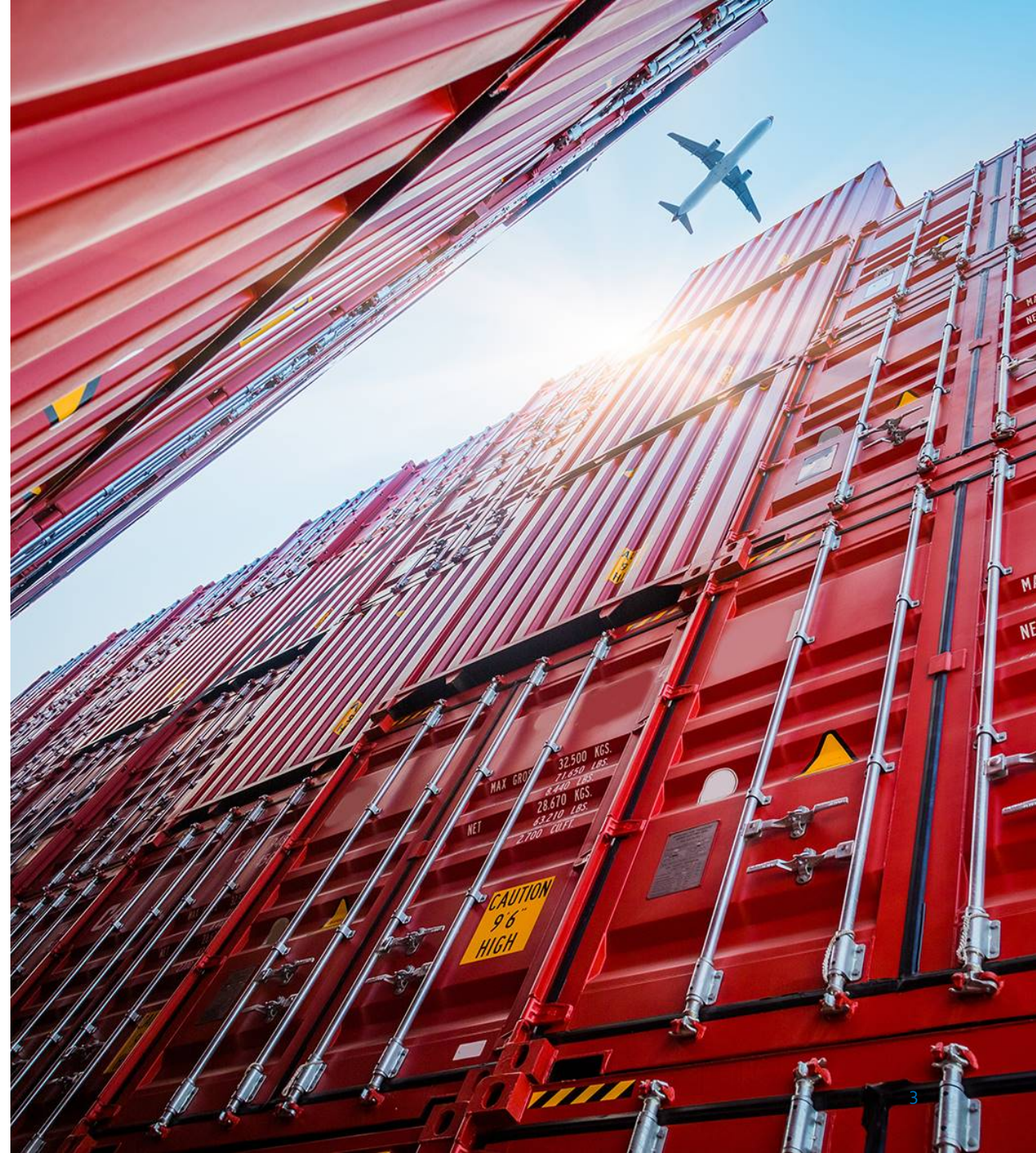
Nordisk Ministerråd

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Digital frontrunners

— Ambitiuos strategies and plans for digitalisation towards a GigabitSociety

— A mature, secure and wide distributed digital infrastructure

— Strong digital ecosystem and start-up community

— Strong telecom providers

Goals for Nordic-Baltic 5G cooperation

— Encourage the development of new testing facilities

— Ensure the technical coordination of 5G frequency bands within the region

— Remove obstacles to expansion of the 5G network, in particular deployment of base stations and antennas

— Encourage and monitor the development of 5G

Regional SWOT

— All Nordic and Baltic countries feature 5G test activities lead by different driving forces

— At least 50 test beds with 5G or with 4G

— Plethora of local 5G initiatives, from cities, municipalities, universities and industries

— Many very active and strong testbeds in various verticals (manufacturing, fisheries, industries and transport)

Green transition
- o Sustainable production
- o Environmental protection and monitoring
- o Smart energy grid
- o Agriculture - Effective use of natural resources

Competitiveness
- o Precision Positioning and Autonomous Systems
- o Mining
- o Self-driving cars and ferries
- o Drones

Social sustainability
- o Hospital applications
- o Critical mission communication
- o Welfare technology

Opportunities

— Digital corridors – a clear infrastructure for data for e.g. cars/trains/drones

— Small countries – we need to cooperate on advanced testbeds

— Common standards for 5G regulation and enabling policies

— Economy of scale for operators and vendors, as well as simplifying transnational business for corporates

Weaknesses

— Several verticals with little 5G activity (health and welfare, emergency services)

— Only very little cross-regional collaboration on 5G – countries, cities and verticals have their own agendas

— Test activities are hampered by low terminal availability

— Lack of "killer application" and intermediaries developing new 5G services

— Other countries (South Korea, China and US) are investing more in 5G R&D

— 5G revenue could cannibalize on 4G investment

— Many talks about new business models, but not much can be seen so far

3 actions

1. **Building a regional 5G ecosystem**

    - Supporting regional cooperation between digital test environments

    - facilitating lose policy dialogue with stakeholders from the ICT industry

2. **Monitoring and benchmarking 5G roll-out**

    - Providing analytical tools identifying driving forces and digital divides at regional and local levels

3. **Promoting regional 5G innovations**

    - Showcasing innovations and business models

Thank you!