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NEWSK TRIMA

28 May 2019



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CHALLENGE COMPETITION WORKSHOP AGENDA

- 1. Introduction of Business Finland Challenge Competition. Overview of applications - Ulla Lainio, BF
- 2. Business Finland funding Tom Warras, BF
- Presentation by Kyyti 3.
- Presentations of Challenge Competition ideas 4.
- 5. Group work
- 6. Concluding remarks and next steps







FUNDING, NETWORKS AND INTERNATIONALIZATION SERVICES

Smart Mobility program runs from 2018 to 2022 with a total budget of EUR 100 million

For companies registered in Finland the program offers innovation funding, market intelligence, networking and internationalization services e.g. trade missions

Targeted at companies, research organizations, municipalities and cities, and e.g. service, ICT and manufacturing industries

Challenge Competition for an own development project or a joint-project with other companies and research institutes





Business Ecosystems generate growth and innovation

COMPANIES

BUSINESS FINLAND FUNDING

BUSINESS ECOSYSTEM

CITIES AND MUNICIPALITIES

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RESEARCH ORGANIZATIONS

CUSTOMERS AND STAKE-HOLDERS

GOVERNMENT REGULATION





NEW LOGISTICS





SMART MOBILITY CHALLENGE COMPETITION

SMART MOBILITY CHALLENGE COMPETITION 10 THEMES FROM FOREST TO SEA FROM DOOR TO DOOR

- 1. Cyber security in traffic or in remote operations
- 2. Autonomous or automated logistics and supply chains
- 3. New system electrification solutions / electric vessels, vehicles or moving machines
- 4. Artificial Intelligence and censor data fusion and open data in smart vehicle or traffic solutions
- 5. Disruption of traffic, mobility services and digitalization from user's perspective



SMART MOBILITY CHALLENGE COMPETITION 10 THEMES FROM FOREST TO SEA FROM DOOR TO DOOR

- 6. Analytics and use of open traffic data or integration of system data
- 7. Arctic sea traffic and Arctic routes, logistics
- 8. Solutions for reaching or under cutting the tightening emission limits
- 9. MaaS (Mobility as a Service), transportation of goods and passengers
- 10. Other solutions or technologies improving the Smart Mobility theme

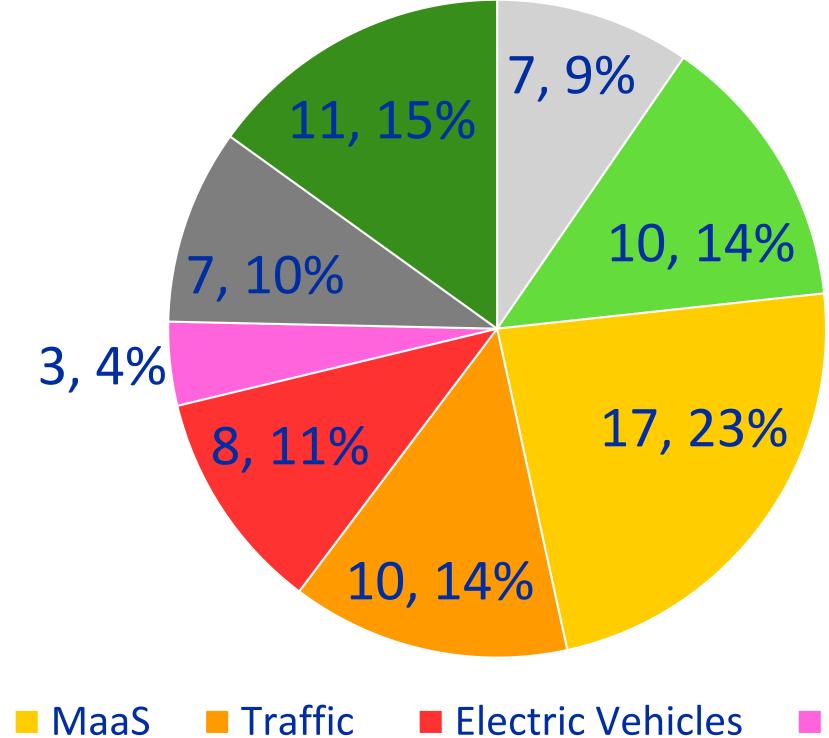




Marine Industry

Drones

SMART MOBILITY CHALLENGE COMPETITION IDEAS = 73 \text{ pcs} Amount and % share of Ideas



Electric Vehicles
Platforms
Forest Industry Logistics



FUNDING FOR INTERNATIONAL GROWTH

Horizon 1: Grow current business, 1-2 years



Impacts for

Finland

Horizon 3: Create options for the future, 5-10 years

Horizon 2: Build emerging business, 2-4 years

COPPONIE CONTRACTOR

Time





FUNDING SERVICES

FOR COMPANIES

EXPLORE, TEST, GO GLOBAL

TEMPO					R&D	INTO
<section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header>	<section-header><text></text></section-header>	<section-header>TALENT EXPLORERHire howledge and expertise to study and analyze an export market</section-header>	<section-header><text></text></section-header>	Renew and prepare to grow into a new international market	<text><text></text></text>	Increase your innovation knowledge to support your growth targets
 Grant 100 % 5000 € + VAT 	 Grant 50 % max 10 000 € 	 Grant 50 % max 20 000 € 	 Grant 50 % max 30 000 € 	 Grant 75 % max 50 000 € 	 Loan 50% / 70 % Grant max 50 % 	Grant 50 %Grant max 50 %

The amount of funding depends on the company's needs and resources.

FOR RESEARCH ORGANIZATIONS: CO-INNOVATION AND CO-CREATION FUNDING

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RESEARCH, DEVELOP, RENEW, GROW







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Business Finland's funding for joint actions

Tom WARRAS National EUREKA Coordinator NCP for Transport and Energy Programmes 28.5.2019





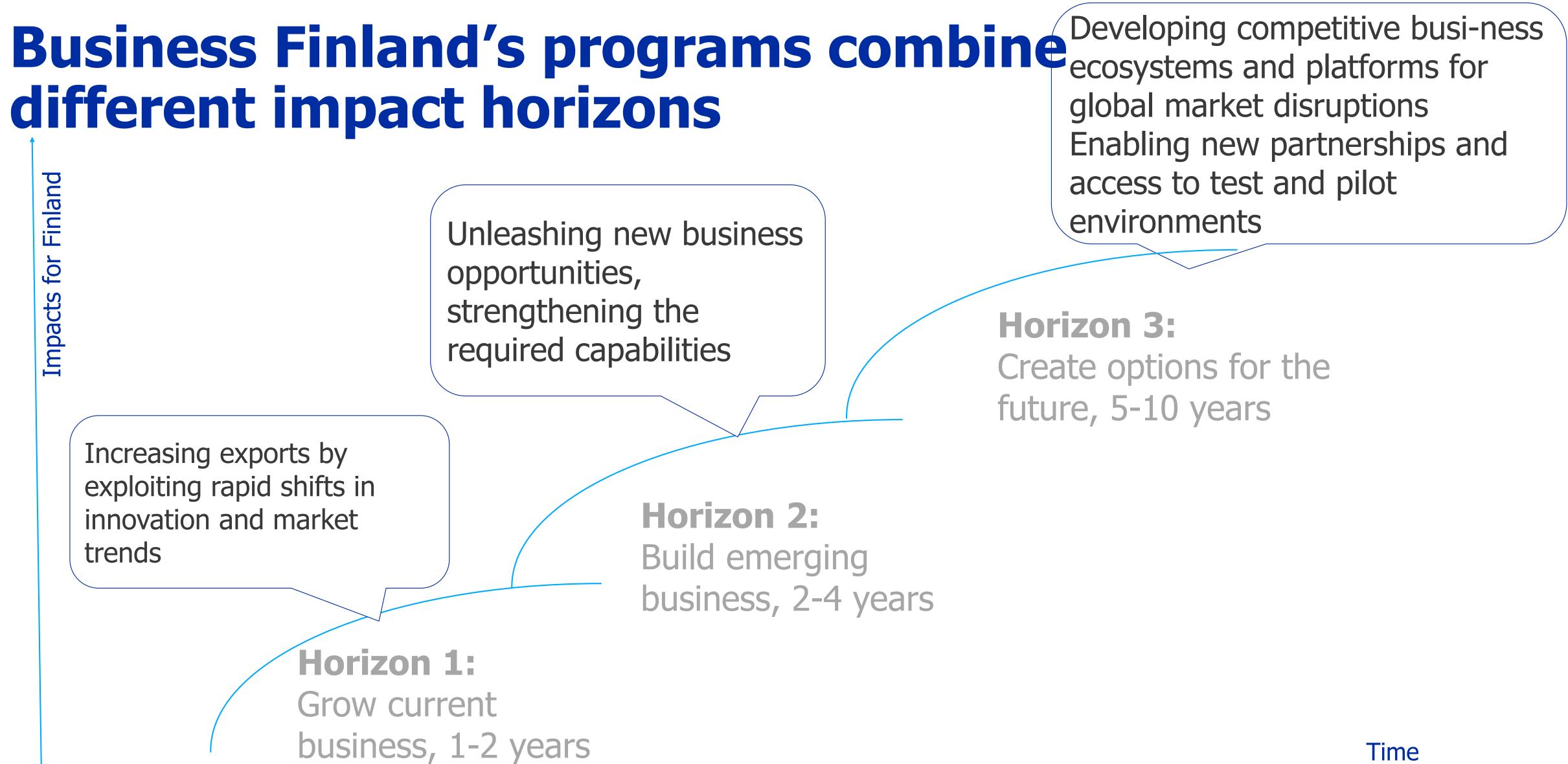
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- Business models
- Digitalization
- Ecosystems
- E2E supply chain solutions
- Autonomous technologies
- Sustainability
- Data sharing
- Platform economy
- Trust, safety & security
- PPP
- Standards
- Testbeds
- . . .

SMART LOGISTICS

The supply chain is being transformed by smart mobility solutions.



Source: Based on McKinsey & Co. / Baghai, Coley, Whyte, 1999

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Time

Ambition: a globally competitive solution





- Haastekilpailun ja tämän työpajan avulla haetaan (myös) niitä alueita, joissa Suomi voi menestyä. Alueita, joissa tarvitsemme toinen toisiamme ja liittolaisia:
- Verkottuminen kotimaisena klusterina, jossa täydentäviä osaamisia
- Liittoutuminen Pohjoismaissa tai muissa maissa standardien ja liiketoimintamallien edistämiseksi
- Sopivat kansainväliset yhteistyökumppanit ekosysteemin rakentajina

Funding services for companies

	EXPLOR	E, TEST, GO GLO	TEMPO	R&D	INTO	
<section-header><section-header></section-header></section-header>	Purchase knowledge on about a new	<section-header>TALENT EXPLORERHire howledge and expertise to study and analyze an export market</section-header>	<section-header><text></text></section-header>	Renew and prepare to grow into a new international market	<text><text></text></text>	Increase your innovation knowledge to support your growth targets
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The amount of funding depends on the company's needs and resources.

For research organizations: co-INNOVATION AND CO-CREATION FUNDING **BUSINESS** FINLAND

RESEARCH, DEVELOP, RENEW, GROW



CASE: LIVING LAB BUS

Open innovation platform for technology and service developers and providers using operational public transport fleet

- An open platform for new technologies and services for development, testing and demonstration
- Quick prototyping and testing for faster commercialisation and credible verification and references
- Real context and real users for measuring user acceptance, gaining feedback and development ideas
- Co-development ecosystem or new mobility service value chains and information exchange
- Project timeline until summer 2019













CASE: DIGITAL LOGISTICS

- Corridor as a Service (CaaS) streamlines transport logistics.
- It positions Finland as a key logistics hub for Asia.
- Intelligent digital logistics technology saves time and fuel while improving capacity utilization.
- Cross border priority/platooning drive service.
- Delivery transparency to traders with real-time tracking.
- Accurate delivery time with steady driving speed.







St Petersburg Moscow

FUNDING FOR JOINT ACTIONS

Companies can participate in research targeting and, together with research organizations, develop new knowledge and innovations for their business needs.

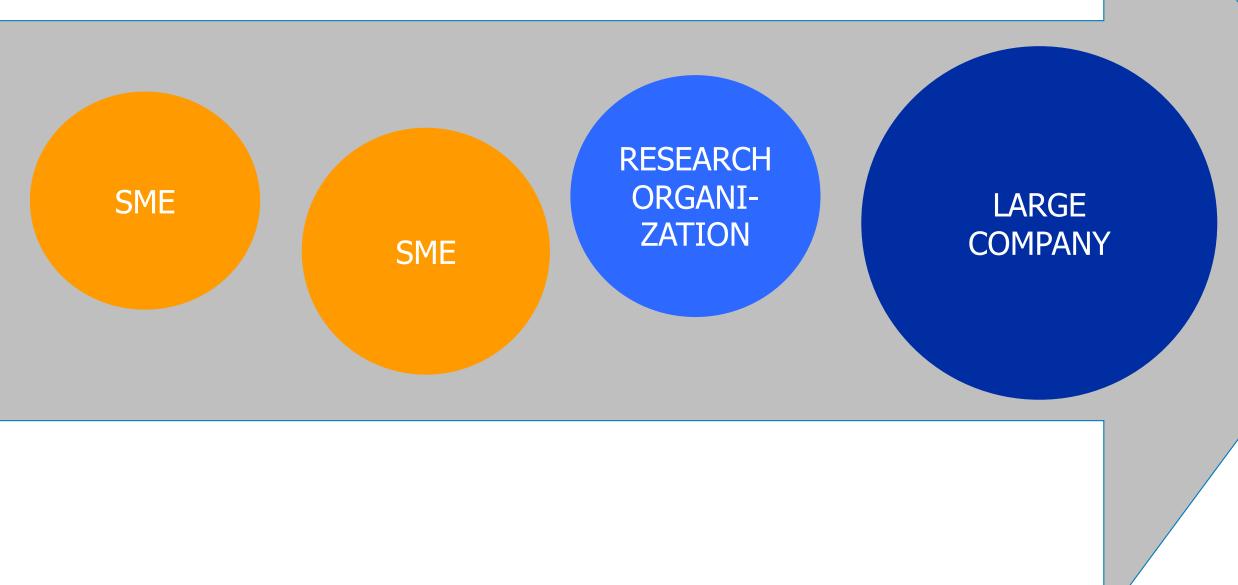
- Common goal + plan
- Need to collaborate on projects
- The projects are implemented in parallel

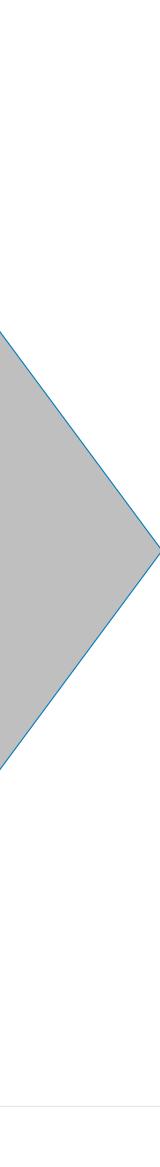
Companies can have different roles:

- own R&D project
- participation in a project of another company as a subcontractor, funding or other investment





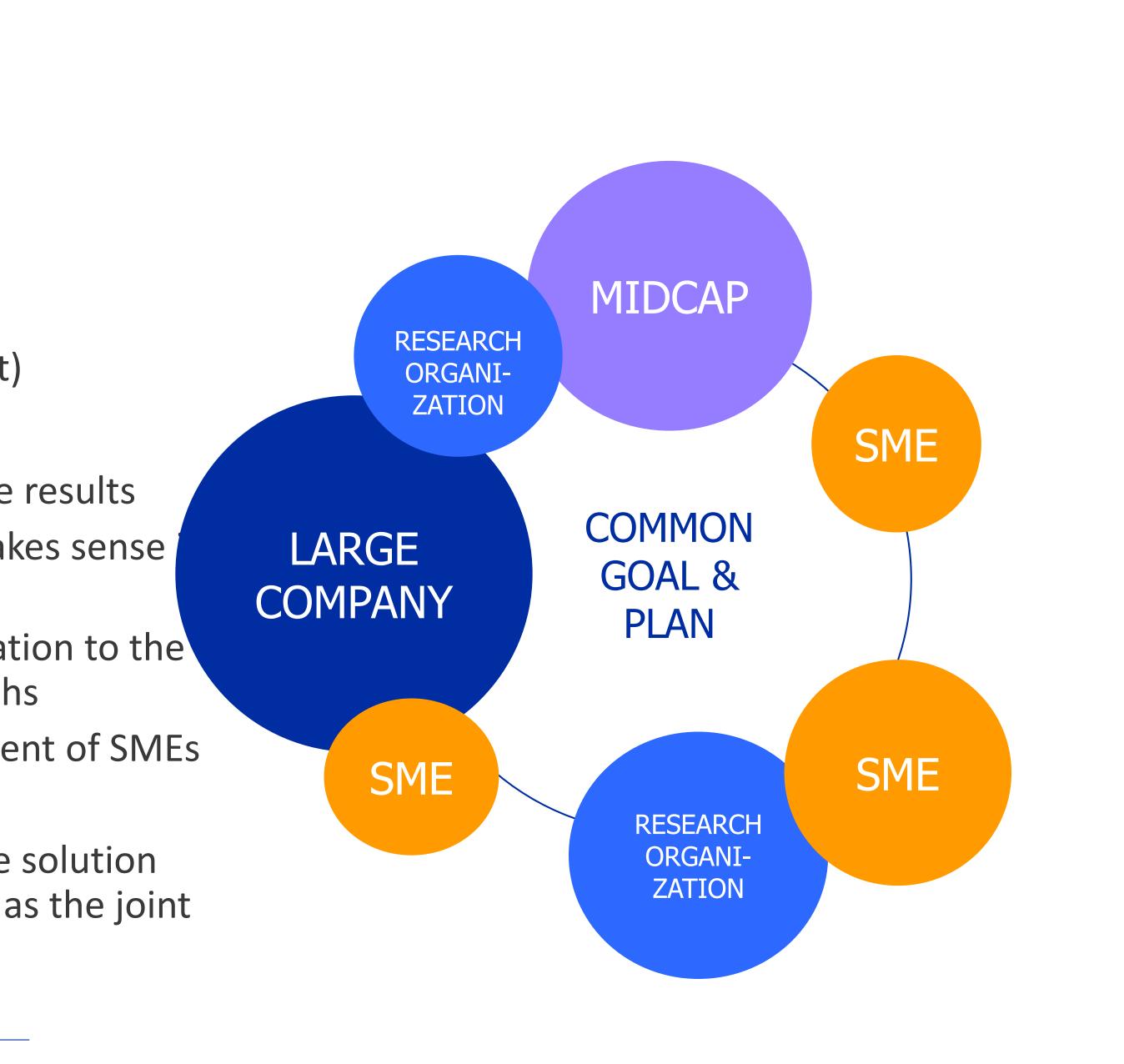




CO-INNOVATION FUNDING

What are the criteria for the funding?

- Proved relevance and demand (problem-solution fit)
- The credibility of the joint action
 - Are the parties to a joint action right to achieve results
 - Is the work distributed in such a way that it makes sense terms of the results
 - Is the company's investment reasonable in relation to the results to be achieved and the exploitation paths
 - How does the joint action affect the development of SMEs and midcap businesses?
- The novelty value and competitive advantage of the solution model, market potential, societal influence as well as the joint action's international collaboration



R&D FUNDING LEVELS





MIDCAP COMPANIES Turnover max. 300 M€	LARGE COMPANIES
Grant max 40%	Grant max 400% Large companies must buy services from SME's and / or research organizations or implement the project as a joint project with them. The share of the bought services has to be 40 % of the project's overall costs.
Loan 50% / 70%	Loan 50%. Large companies must buy services from SME's and / or research organizations or implement the project as a joint project with them. The share of the bought services has to be 15 % of the project's overall costs.



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Business Finland's program path for service businesses in mobility, transport and deliveries

Tom WARRAS National EUREKA Coordinator NCP for Transport and Energy Programmes 28.5.2019



MaaS Tekesin strategiassa 2014 alkaen





MaaS-haku 2015

- Esiselvitysrahoitus 50.000€
- Start-upit ja isot toimijat suunnittelivat

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Liikennelabra

- Perustamisvaihe: datan hankinta Labran käyttöön
- Myöhemmin: yhteistyömalli

GSM model ew licensed operat Standardize chnologies acro Active multi-vendo

ernet Mode tandard interface eraence of dom

MaaS-Market-Creation 2017

- Will dynamic multiactor model dominate?
- Or superplatform?

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BOMAAS-projekti 2016-2017

- Kaikille toimijoille avoimet markkinat – mahdollisuus luoda uusia palveluita kysynnän mukaan
- Matalat sopimiskustannukset toimijoiden välisessä yhteistyössä
- Paikallisten liikkumispalvelujen tarjoajilla mahdollisuus liittyä globaaleihin matkaketjuihin
- Avoimuus uusille markkinakonsepteille — ei markkinastagnaatioon johtavia rakenteita

Tavoitteet:

- Matalammat tietojärjestelmäkustannukset
- Palveluiden parempi saatavuus asiakkaille



Liikkumispalvelut

Liikkumismarkkinat

Rajapintamäärittelyt

Liikennekaari ja ITS-direktiivi

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BOMAAS-projektin ratkaisuehdotukset



Luottamus-

ketjut

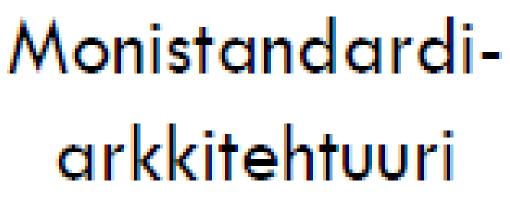
Luottamusketjut ja -verkostot

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- Vähän kahdenkeskisiä sopimuksia
- Palvelujen auditointi paikallisten toimijoiden kautta

- Avoin uusille palvelukonsepteille Nykyiset palvelut helppo integroida
- Mahdollistaa vaiheittaisen käyttöönoton
- Mahdollisuus useille rinnakkaisille palvelukanaville



Hajautettu rakenne

- Ei koko järjestelmän kannalta kriittisiä tahoja
- Laajonnottavissa uusillo aluoillo
- Ei portinvartijoita
- Kaikilla mahdollisuus valita oma luottamusverkostonsa

© Flou ja Tekes 2017





Liikkumisen dataan liittyviä haasteita, joita haastekilpailun ehdotukset haluavat ratkaista

Luottamusverkoston muodostaminen datan jakamiselle Datan palvelukerrokset: User -Publisher – Service -Agreement layer

Datan omistus, datan laatu, markkinamekanismit datan käyttöön saamiseksi? Liikkumisen palvelurakenne: mitä ajoneuvoja, kulkuneuvoja, tarjotaan ja kuka omistaa?

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Logistiikkaketjun avoin data vs. luottamuksellinen tuotedata

Käyttäjäkokemus ja palvelun käytettävyys – mistä tulevat muutoksen driverit?

Ruotsi-yhteys DRIVE SWEDEN

On the 12th of June we invite you to Ericsson and Kista Science City

There are still spots available so take the opportunity to learn more about Drive Sweden's call that opens in June.

Do you have an idea for a project? Pitch it at the meeting, but please send an email to sofie.vennersten@drivesweden.net beforehand.



BUSINESS FINLAND

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