Boosting digital transformation of the built environment
PNWER 2017
Teemu Lehtinen
My background

Chief Digital Officer in KIRA-digi project (2016-2018)
M.Sc. (Tech) (2010)
   Information Networks, Aalto University
   Master’s Thesis: “Advantages and disadvantages of vertical integration in the implementation of BIM”

Almost D.Sc. (Tech) (2017)
   Business Networks in Digital Economy, Aalto University
   Dissertation: “Understanding integration of complex projects – A multi-level analysis”

Stanford “alumni” (2012 ja 2014)
   Two case studies in large IPD hospital projects
   CIFE & GPC

Community builder
   AEC Hackathon Finland

Father of two boys (5 & 2 y-o)
Electric car enthusiast (Nissan LEAF)
Industry 4.0 framework
Innovation funding with impact

- Tekes has partly funded 65% of well-known Finnish innovations in 1985-2009.
- In SMEs, an investment of one euro by Tekes produces 21€ of turnover annually.
- Projects that were completed in 2012 produced 840 academic theses.
- For every 14,000€ of Tekes funding, one permanent job is created in the private sector.
- Projects that were completed in 2012 generated 1,260 products, services or processes.
- SMEs expect projects in 2012 to produce 6.2 billion euros in turnover during the target year.
- For every euro invested by Tekes, companies increase their own R&D expenditure by 2 euros.
- Projects that were completed in 2012 resulted in 980 patents or patent applications.
- 47 of the 50 fastest-growing technology companies in Finland are Tekes customers.
- Over 80% of Tekes customers state that the Tekes funding was a significant factor in their success.
- Tekes Global Access Program (GAP) has increased GDP by more than 20 M€.
- In the GAP Program, one euro invested by Tekes has generated 17 €.
e-Finland open source service platform
Open AEC platform for data flow

Corecloud.com*

DIGITAL ECOSYSTEM IN THE BUILDING AND CONSTRUCTION INDUSTRY

- User driven services
- Innovative business models
- Real estate life-cycle data end-to-end
- Machinery and facility steering with sensor and measurement data

KNOWLEDGE SHARING AND SERVICES

Social networks  Internet of Things  Core Information systems  Playstore-service providers  Insurance, banks & financial institutions  Retail and logistics  Register and knowledge services  Real estate life-cycle data  Local Data Highways
KIRA-digi: Digital built environment

Agile operational environment

Open APIs to enable information flow

New business from quick experiments

Helping the *data-driven, end-to-end digital business ecosystems* to flourish within the built environment sector in Finland!
Part 1: Unified information management

Part 2: Changes in legislation

Part 3: Experimentation and pilot projects

New business opportunities

+25% Productivity
+25% Growth

-50% Waste & rework
-75% Defects & mistakes

2030
In the last 5 years, 10% of ALL startup exits came from Helsinki.
Unfair advantage?
NObody in their right mind would come to Helsinki in November.
Except you, you badass. Welcome.
Global collaboration – Let’s do it together!
Three key takeaways

1. Ecosystem thinking
2. Openness and transparency
3. Bold co-experiments
RAKENNETUN YMPÄRISTÖN JA RAKENTAMISEN DIGITALISAATIO
– HANKE
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WDBE 2018

1st World Summit on the Digital Built Environment

August 2018
Helsinki, Finland
Join the movement!

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#buildingmovement
#kiradigi