HITS

Camilla Nyquist, Lund University
Configurational Approach

Contextual conditions
- Loosely-coupled architecture
- Decentralized control

Mechanisms
- No 1
- No 2
- ...
- No N

Outcome
- Success

Actualized ✗ Unactualized

Henfridsson & Bygstad, 2013
Adoption

Figure 5: The Adoption Mechanism

...more users adopt the infrastructure as more resources invested increase the usefulness of the infrastructure

Henfridsson & Bygstad, 2013
Perspective

- Business model
- Legislation
- Technology
Market Structure

Sternberg et al., 2013
Transport Perspective

Sternberg et al., 2013
IAP
Intelligent Access Program
NOMADIC INTELLIGENT ACCESS PROGRAM

NIAP CLIENTS

NIAP SERVICE PROVIDERS

ROAD AUTHORITY

TCS TRANSPORT COMPLIANCE SWEDEN

SENDUS ANDROID

SENDUS SERVER

AUTHORITY SERVER

TCS SERVER

VOLVO DYNAFLEET

VOLVO SERVER

SCANIA IVU

SCANIA SERVER

TRUCKS WITH MOBILE DEVICES

MAP & LAW

JUDGEMENT

FEEDBACK
NOMADIC INTELLIGENT ACCESS PROGRAM

NIAP CLIENTS | NIAP SERVICE PROVIDERS | ROAD AUTHORITY | TCS TRANSPORT COMPLIANCE SWEDEN

DATA COLLECTION
- Time
- Speed
- Geographic location
- Weight
- Goods
- Etc.

DATA PROCESSING
- Big data & data mining
- Match against rules and regulations, e.g. maps
- Compilation of NCR*

DATA USAGE
Determine judgement for hauliers with non-compliance reports

IAP FEEDBACK
Data, behaviour and NCRs are used to fine-tune the IAP system

(REAL-TIME) FEEDBACK TO DRIVER

*Non-compliance report
NOMADIC INTELLIGENT ACCESS PROGRAM

NIAP CLIENTS

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ROAD AUTHORITY

DATA USAGE
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TCS TRANSPORT COMPLIANCE SWEDEN

IAP FEEDBACK
Data, behaviour and NCRs are used to fine-tune the IAP system

DATA EXPLOITATION THROUGH OTHER SERVICES

*Non-compliance report
Project Content

- Business model
- Information model
- Legislation
- Service platform
- Integrity & information security
Partners & Stakeholders

- Lund University
- Gothenburg University
- Saab
- Sendus
- Scania
- Ericsson
- Viktoria Swedish ICT
- Sjöland&Thyselius
- DSV
- Intereast
- Perstorp AB
- Transport Group
- Swedish Association of Road Transport Companies
- Swedish Transport Agency
European Perspective
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