



Agency for Public Management  
and eGovernment

# ***The Potential within the Government for Innovation and Efficiency from Open Data – Examples from the Norwegian public Sector***

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Samos Summit June 30 2014

# Difi - The Norwegian Agency for Public Management and eGovernment

A scenic background image showing a person diving from a wooden pier into a calm lake. In the distance, there are rolling hills or mountains under a blue sky with scattered white clouds. The pier's wooden structure is visible on the left side of the frame.

- Executive Agency established 1 January 2008
- To assist in reforming and developing the public sector
- Ca. 230 employees: 90 in Leikanger and 140 in Oslo
- Reports to the Ministry for Local Government and Modernisation

# Law, Policy & Tools

- ▶ Constitution of Norway, Article 100
- ▶ Freedom of Information Act 2006
- ▶ Circular of Digitisation 2013
- ▶ Digital Agenda 2013
- ▶ PSI Directive 2013
- ▶ NLOD (Norwegian Licence for Open Data) 2011
- ▶ Open Data Guidelines
- ▶ Difi Datahotell
- ▶ Data.norge.no

# Why Open data?



**Openness and  
Transparency**



**Business  
Development**



**Efficiency and  
Innovation  
in the Public  
Sector**

- ▶ **72%** of governmental agencies are aware of data that is held by other agencies, that would be useful for themselves.
- ▶ **55%** know about data they hold themselves that should be made available to others.
- ▶ In 2007 results were 36 % and 30 % respectively.

Source: Office of the Auditor General, 2011

# Better Digital Public Services

A space has  
opened with  
your preferred  
doctor

Would you like a  
kindergarden place?

Put your bins out  
this evening

Snow

**Dependent on Data Sharing**

at the  
hospital last week  
— heres your travel  
expenses



Would you  
like to  
become a  
citizen

Your daughter is  
signed up to start  
in school

# Traffic Light System for data sharing



Red

Closed. For internal use and to the customer.

Yellow

Shared data – internal between public sector organisations and to the customer.

Green

Open for all



# Better Digital Public Services

A space has  
opened with  
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Would you like a  
kindergarden place?

Snow  
Ploughs are

Put your bins  
out this  
evening

**Public and Private Sector Delivery**

You were at the  
hospital last  
week – heres  
your travel  
expenses

Your daughter  
is signed up to  
start in school

Would you  
like to  
become a  
citizen





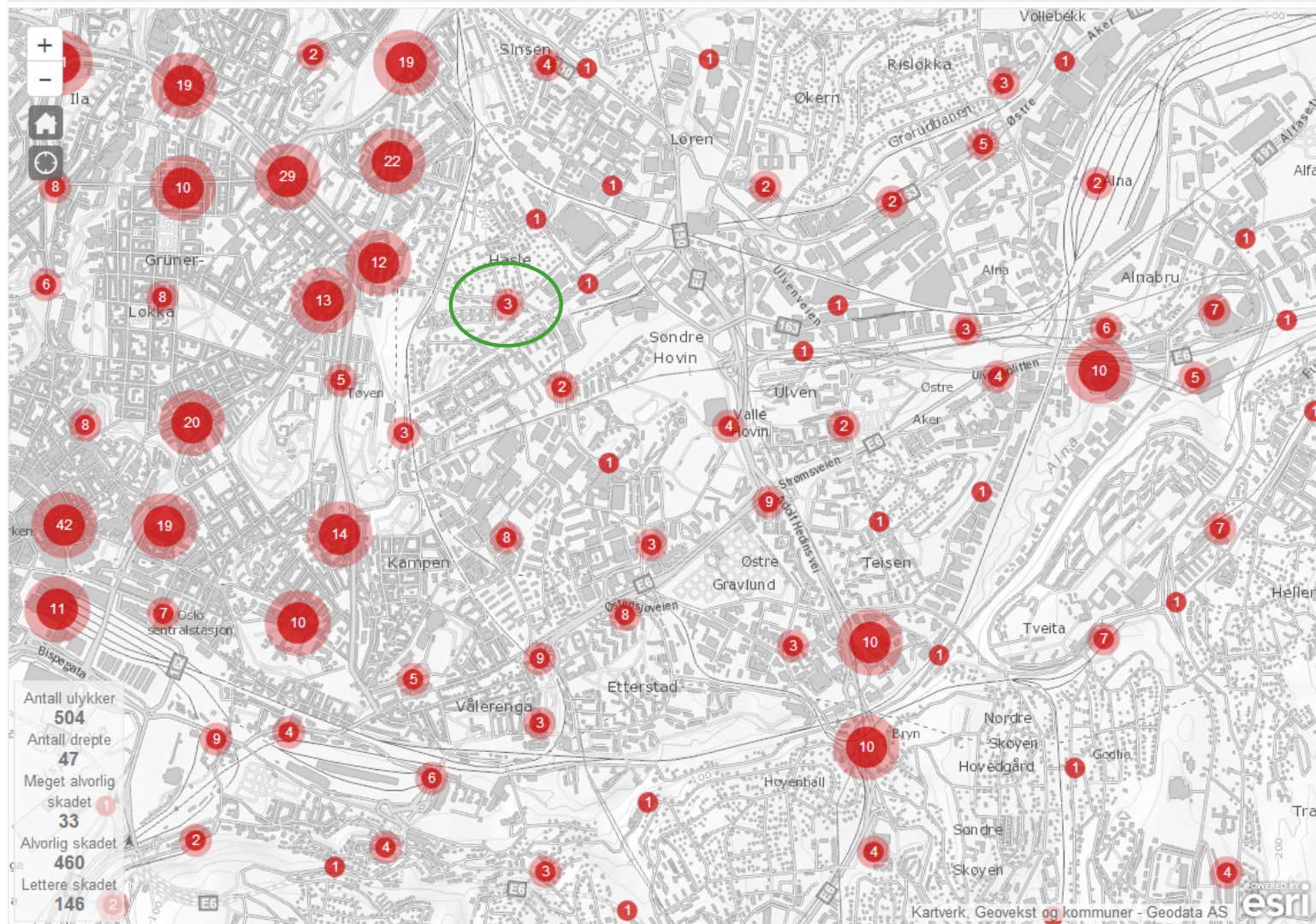
# Some early examples – The tip of the iceberg



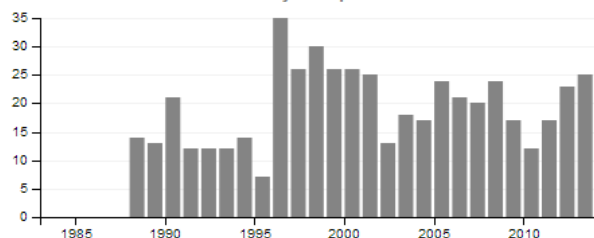
# Benefits

- **Benefit 1: Design for sharing improves efficiencies**
- **Benefit 2: Improved Data quality and Service Delivery**
- **Benefit 3: Data sharing within the public sector provides for great savings and better services**

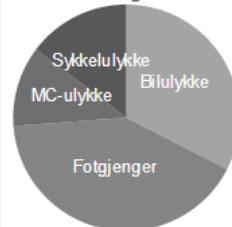
# **Benefit 2: Improved Data quality and Service Delivery**



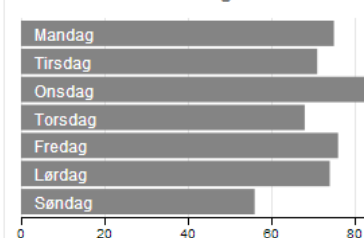
Antall ulykker pr. år



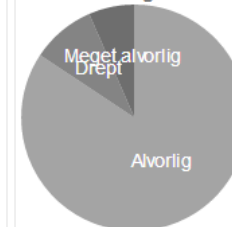
Kategori



Ukedag



Skadegrad





Gavlane

24

74

3

Antall ulykker

**101**

Antall drept

**16**

Meget alvorlig  
skadet

**6**

Alvorlig skadet

**91**

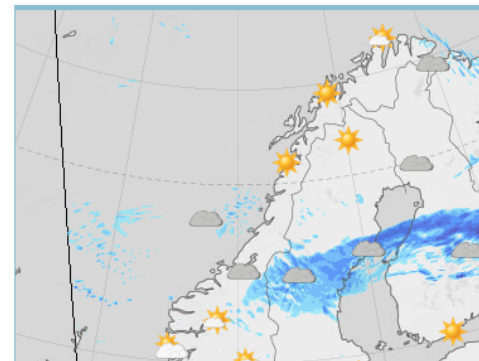
Lettere skadet

**32**



**Driftsmelding** Vi oppgraderer yr.no i dag mellom kl 9 og 13. I oppgraderingsperioden kan sidene gå saktere enn normalt, eller ikke fungere. Beklager!

Steder	Mandag	Tirsdag	Onsdag	Hurtigmeny
Hermansverk	16°	18°	17°	Time for time Langtidsvarsel
Madrid	15°	17°	17°	Time for time Langtidsvarsel
Bjørberg	12°	9°	10°	Time for time Langtidsvarsel
Dublin	13°	13°	13°	Time for time Langtidsvarsel
Portlaoise	15°	16°	11°	Time for time Langtidsvarsel
Hodlekve skisenter	12°	14°	14°	Time for time Langtidsvarsel



Sogndal lufth

Hemsedal St



Værka



Hav og



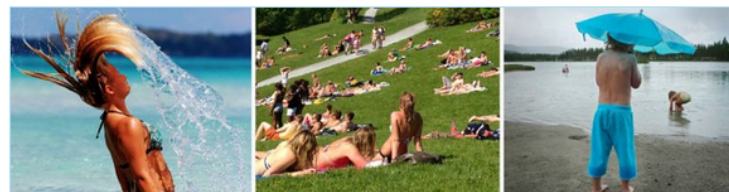
Værra



Se sky

# Yr.no: Fixed long standing errors in the models, when exposed to ordinary users.

## Nyheter om været



## Yr.no – best i test

Yr.no kommer for andre år på rad best ut av en omfattende sammenligning av værvarslene fra Yr, Storm og svenske SMHI.

om yr.no

### Så ofte treffer 17.mai-værvarslene

12.05.2014

Solbriller eller paraply? For varmt eller akkurat passe for bunad? Sjekk hvor ofte 17. mai-varslene treffer! Vårens viktigste utedag, 17.mai, er rett rundt hjørnet o [...]

### Slik varsles skogbrannfare på yr.no

30.04.2014

Snøsmelting på våren gjør at fjorårets døde vegetasjon kommer til syne. Uten nedbør tørker det fort opp, og etter kun en uke kan det bli stor gress- og lyngbrannfare [...]

### Bedre vindvarsler i påskefjellet

11.04.2014

BEDRE VINDVARSLER: Yr har blitt bedre på å varsle vind i fjellet siden i fjor påske. Foto: Kjell Kolsaker I vinter forbedret vi værmodellen som brukes når vi varsler [...]

**Benefit 3: Data sharing within the public sector provides for great savings and better services**



# Traffic Light System for data sharing



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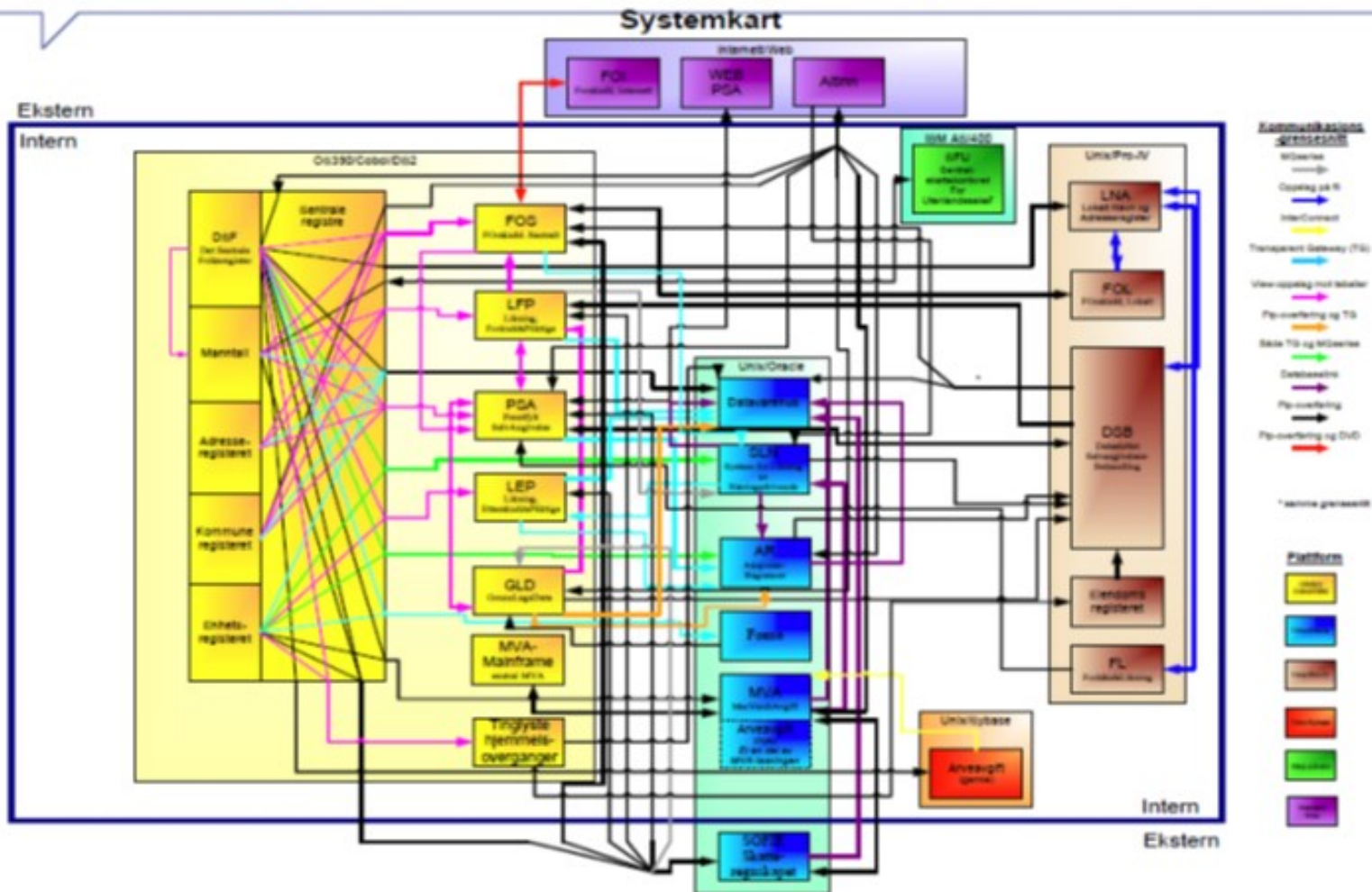
Open for all

# National Electronic Contact Register for Citizens

- ▶ Central e-mail and mobile number register for over 3 million citizens in Norway
- ▶ Norwegian public sector can access and use this register to deliver their services
- ▶ Benefits -
  - ▶ Better user satisfaction – one registration
  - ▶ Improved data quality
  - ▶ Services direct to the user
  - ▶ Great financial savings for public sector

# **Benefit 1: Design for sharing improves efficiencies**

## Forenklet modell av en del av IT-systemene...



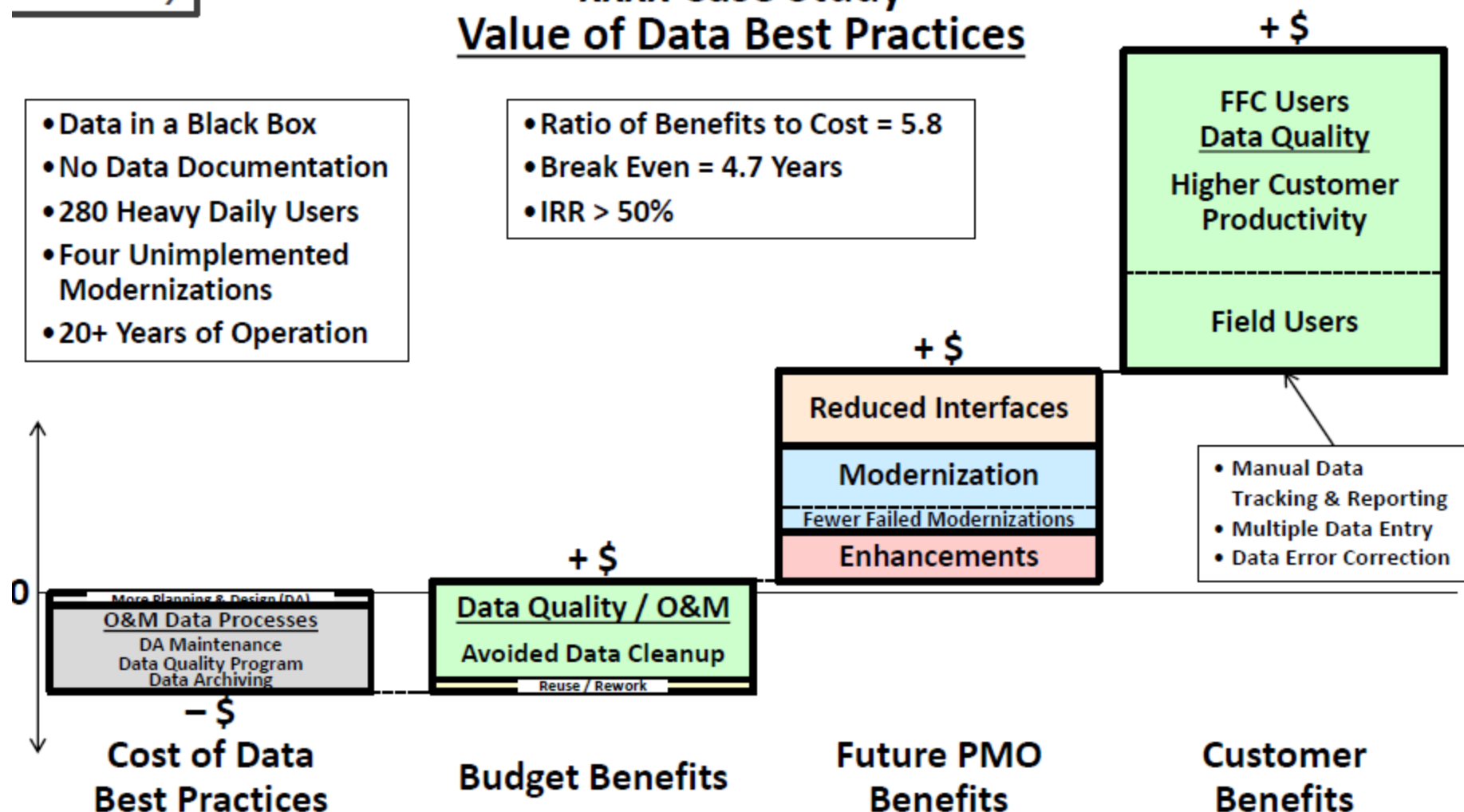
# For xxxx, We Built a Case Study Valuation Showing \$6 of Benefit for Every \$1 Invested

*Preliminary*

## xxxx Case Study Value of Data Best Practices

- Data in a Black Box
- No Data Documentation
- 280 Heavy Daily Users
- Four Unimplemented Modernizations
- 20+ Years of Operation

- Ratio of Benefits to Cost = 5.8
- Break Even = 4.7 Years
- IRR > 50%

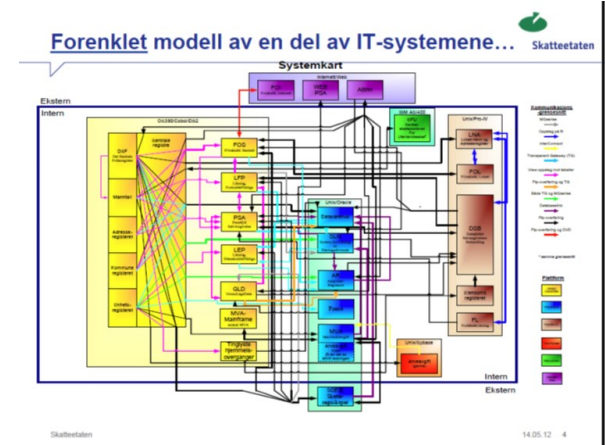


Homeland  
Security

# The Norwegian Public Roads Administration (NPRA) experience

# Benefits for the NPRA

- Improved confidentiality, integrity and accessibility
- Improved agility through radical simplification of the ICT infrastructure
- Data easily available for re-use (both within and outside the public sector)
- Community of API-users healthy for further development of services
- Community of data-users healthy for data quality

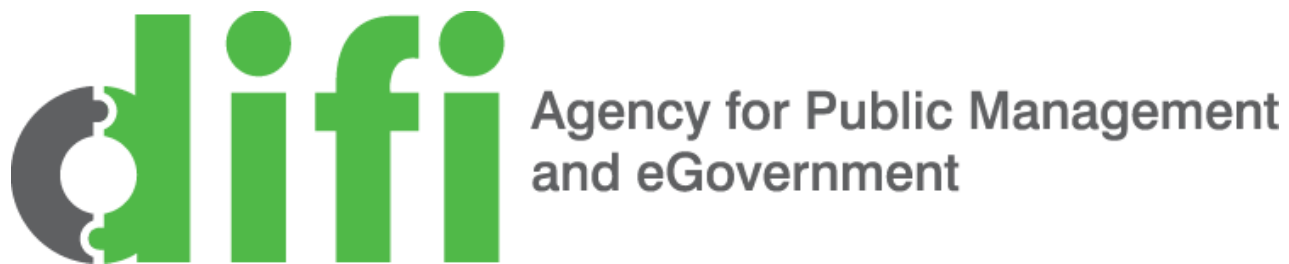




# Our vision

*Sharing of data will be an integral part of how the public sector deals with their information and delivers their services*

# Thank you!



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@opnedata