

INSPIRE CONFERENCE

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Sharing environmental information, sharing innovation

GEOGRAPHICAL INFORMATION AS BASIS FOR THE DIGITAL AGENDA

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no question about the importance of geographical information as a basis for eGOV ...



... but what about the awareness ???

no question about the importance of geographical information as a basis for eGOV ...



... but what about the awareness ???

program for this presentation

- the awareness of the coherence between geographical information and e-Government
 - EUROPE2020
 - The Digital Agenda
 - Empirical findings (Denmark-Sweden)
 - The Danish-Government Strategy
- e-Government and the need for geographical information
 - A lot of the specific initiatives in The Digital Agenda have a geographical component (without this being recognized)
- Added value !

eGov and geographical data

- eGov (C.Baum-& A.Di Maio, 2000):

””a continuous optimization of service delivery, constituency participation and governance by transforming internal and external relationships through technology, the Internet and new media.” (B2B, B2C, G2C, G2B, G2G)

e-Governance: allows citizens direct participation of constituents in political activities going beyond government and includes e-Democracy, e-Voting and participating political activity online. Most broadly the concept of e-Governance will cover government, citizens’ participation, political parties and organizations, Parliament and Judiciary functions.

- SDI (opengeospatial.org)

Spatial Data Infrastructure is the “... collection of technologies, policies and institutional arrangements that facilitate the availability of and access to spatial data.”

- geographical (spatial) data (INSPIRE, 2007)

”any data with a direct or indirect reference to a specific location or geographical area”

political awareness ?

at the European level:

- **EUROPE2020**

EU's growth strategy for the coming decade.

Three cornerstones

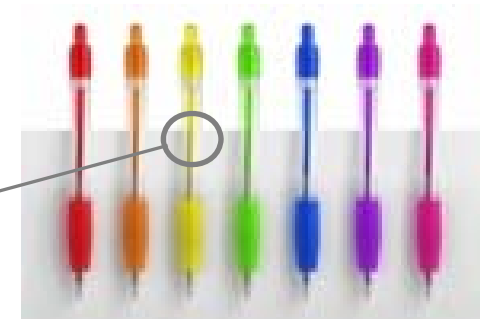
Seven flagship initiatives

→ *The Digital Agenda for Europe*

- **The Digital Agenda for EU**

No direct link to spatial data

But several indirect links



political awareness ?

at the European level:

- **EUROPE2020**

EU's growth strategy for the coming decade.

Three cornerstones

Seven flagship initiatives

→ *The Digital Agenda for Europe*

- **The Digital Agenda for EU**

No direct link to spatial data

But several indirect links

- call for interoperability
- climate change
- reduction of energy consumption
- transportation efficiency and mobility
- eGovernment
 - empowerment
 - seamless cross-border services
 - eEnvironment services

political awareness ?

at the local level:

- Sweden

User surveys from 1990-2007

Year	N° respondents	IT strategy	Incl. GIS
1995	279	60	?
1997	289	67	32
2000	327	51	41
2003	613	?	42
2007	219	24	59

political awareness ?

at the local level:

- **Denmark**

User surveys from 2009

51 pct. of the Danish municipalities have an IT-strategy including GIS

45 pct. of the public Danish authorities have an IT-strategy including GIS

- 60 pct. of the strategies are anchored at the management level
- 36 pct. of the strategies deal with standardisation issues
- 44 pct. of the responders answer that the strategies are used actively as guidelines in the organisation
- 32 pct. uses the strategy as a platform for future collaboration

political awareness ?

at the local level:

- **Denmark**

Examples/comments

- Descriptions of how the municipality is a part of the common public solutions and INSPIRE.
- One of the main objectives of the strategy is the usage of the public databases as the main data sources and not as duplicates.
- Similar layout in (distributed) maps.
- Meta-databases and policies about responsibility/ maintenance.
- Service-oriented architecture.
- Other strategies (communication strategies) and new solutions (projects) are scanned in regard of possible geographical coherences in order to clarify where the use of GIS can be of value.

political awareness ?

at the local level:

- Denmark

Another user survey from 2009 to all the IT-executives in the municipalities

Four main conclusion:

1. the traditional channels have only to a limited degree been replaced in regard of the municipal contact with the citizens
2. self-service systems (citizen-centric) and the internal IT-systems are only to some degree integrated, and the municipal IT-systems are only to a minor degree integrated with other public authorities' IT-systems
3. cost-benefit analysis of IT-implementation is scarce
4. there is a limited interest for IT amongst politicians. Hence, in the pursue of enhanced digitalisation of the public sector, the municipals face challenges regarding:
 - a) a need for a stronger focus on the internal organization,
 - b) reorganising procedures and
 - c) cross-organisational cooperation internally and externally in the municipal/municipalities and other public organizations.

political awareness ?

at the local level:

- Denmark

	HIGH DEGREE	SOME DEGREE	LOW DEGREE	NOT AT ALL
It-department and leader(s)	91	7	2	0
Administrative managers	35	42	22	1
City manager	30	51	15	4
Private consultans	9	35	35	21
Politicians	1	28	51	20
Other municipals	0	7	42	51

Participation in the development of the it-strategies (Geoforum Perspektiv 20, 2011)

political awareness ?

at the local level:

- Denmark

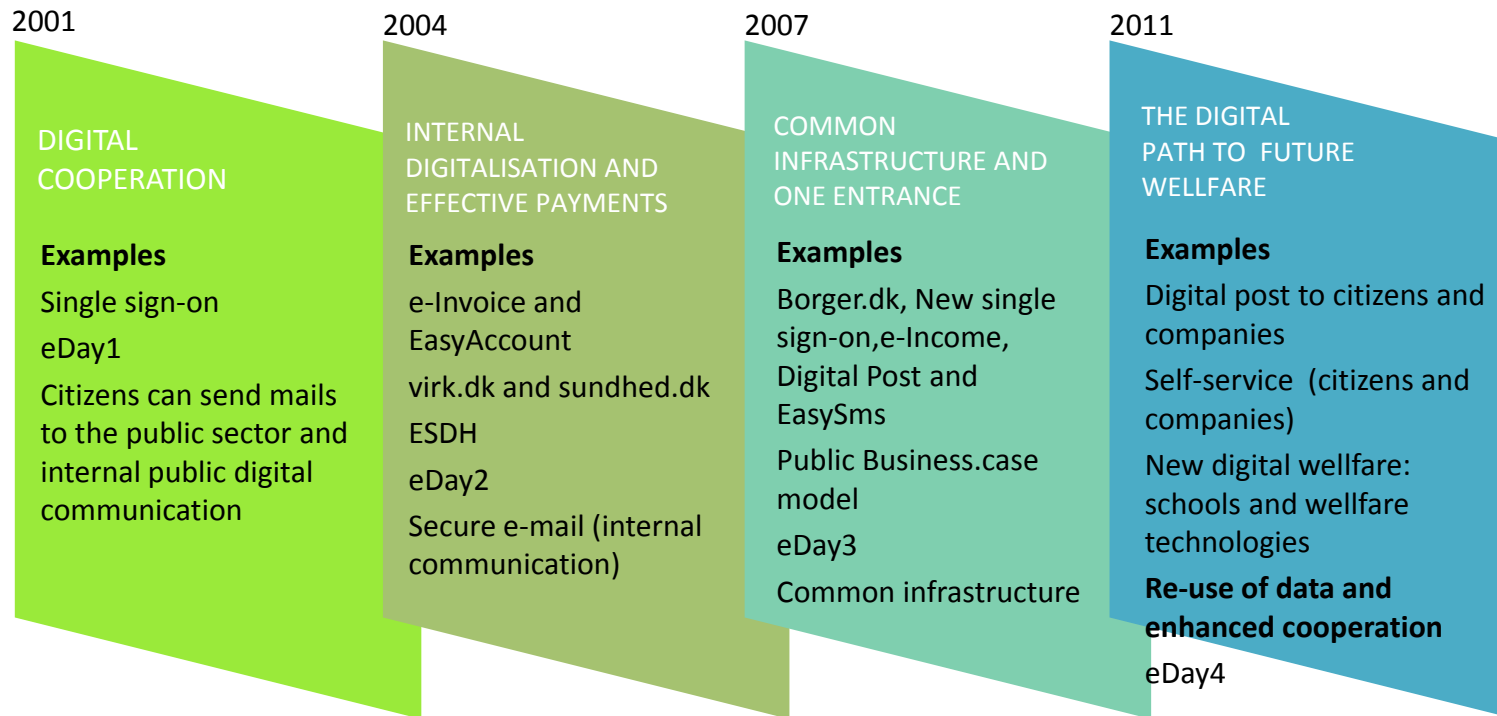
	HIGH DEGREE	SOME DEGREE	LOW DEGREE	NOT AT ALL
City manager	46	44	9	1
Topmanagement	38	56	6	0
Employees, administration	6	52	41	1
Politicians	4	41	47	8
Head of institution	3	46	46	4
Employees, institutions	1	20	60	15

The IT-leaders perception of the interest for the digitalisation of the municipal organisation (Geoforum Perspektiv 20, 2011)


political awareness ?

at the national level:

- Denmark

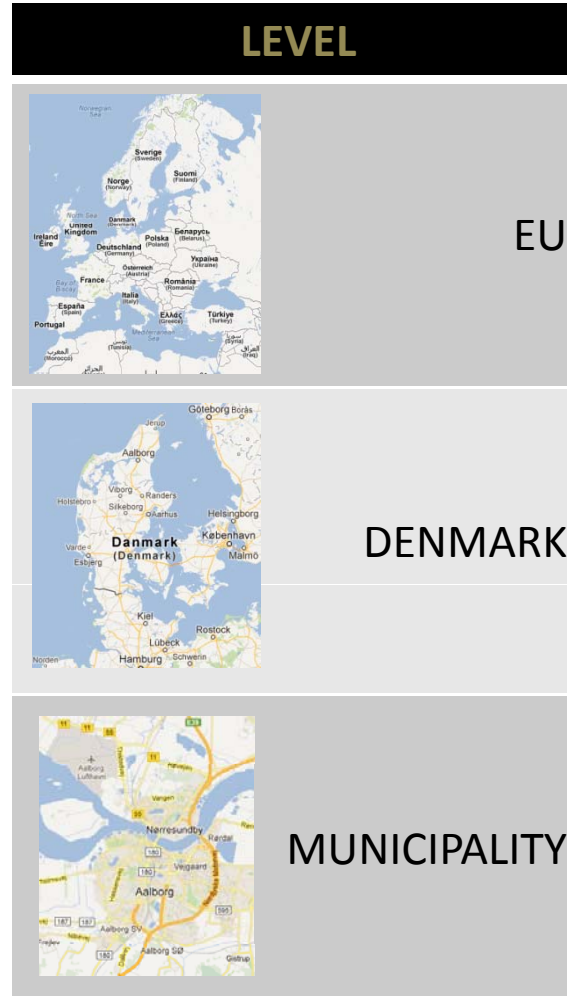


political awareness ?

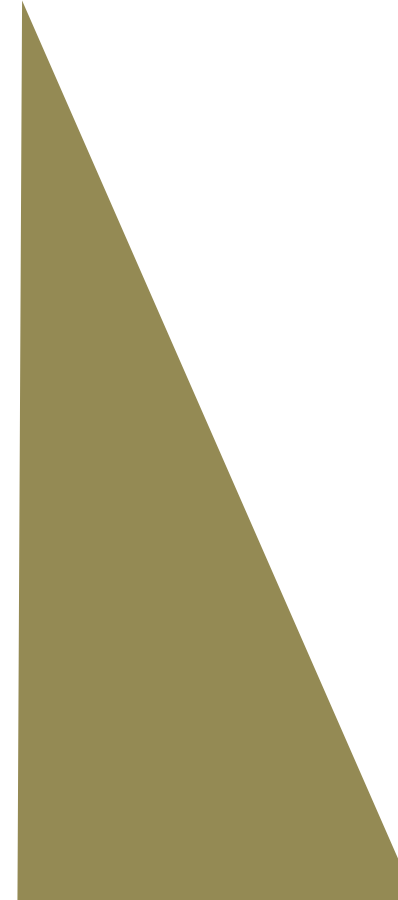
LEVEL	STRATEGIES	FOCUS
 <p>EU</p>	<ol style="list-style-type: none"> 1. GROWTH STRATEGY 2. DIGITALISATION STRATEGY 	<ol style="list-style-type: none"> 1. DIGITALISATION 2. eGOVERNMENT
 <p>DENMARK</p>	<ol style="list-style-type: none"> 1. GROWTH STRATEGY 2. DIGITALISATION STRATEGY 	<ol style="list-style-type: none"> 1. DIGITALISATION/ eGOVERNMENT 2. eGOVERNMENT/ basedata (spatial data)
 <p>MUNICIPALITY</p>	<ol style="list-style-type: none"> 1. IT-STRATEGIES 2. GIS-STRATEGIES 	<ol style="list-style-type: none"> 1. ... 2. ...

political awareness ?

GROWTH AND eGOVERNMENT



SPATIAL DATA

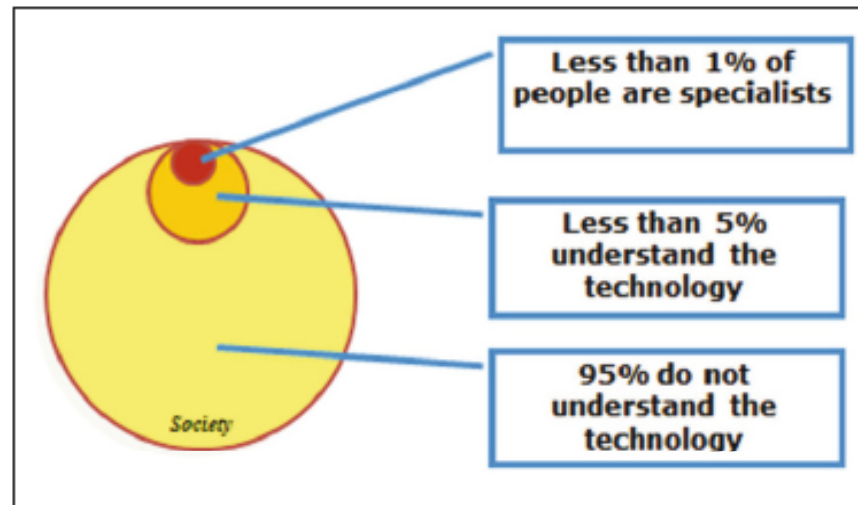


political awareness ?

GROWTH AND eGOVERNMENT

LEVEL

SPATIAL DATA



Level of spatial data user and expertise in society
(Enemark, S., Abbas, R. (2011) Geoforum
Perspektiv 20



MUNICIPALITY

political awareness ?

GROWTH AND eGOVERNMENT



SPATIAL DATA

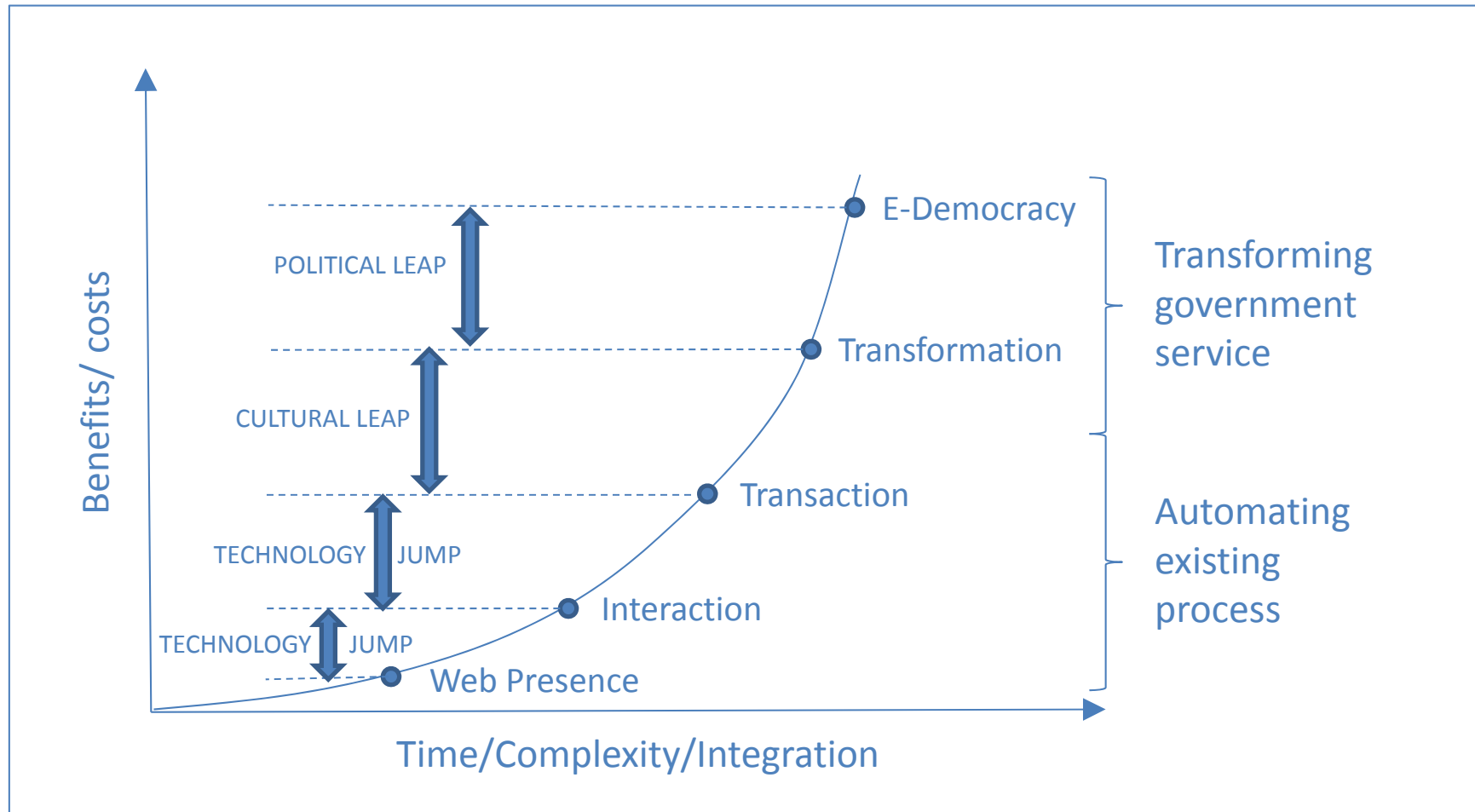


a growing political awareness

In *Leveraging e-government at a time of financial and economic crisis* (2010) by the United Nations

- *“Funds committed to addressing the crisis often can be linked to a geographic area, and citizens might well be interested in finding out how much money is directed to nearby places, and for what purposes. Governments are using geographic information systems to provide information in a more contextualized and attractive manner, while facilitating users’ comprehension of the data conveyed”.*
- *Forty percent of the websites identified present geo-referenced information.*
- *GIS can play an important role in assisting government agencies in tracking and monitoring. This system enables an effective use of geographic information, designed for the collection, storage and analysis of objects, where geographic location is critical to the analysis. It aids users in organizing the data about problems, understanding their spatial relationship associations, and analyzing and synthesizing information about them.*

a growing political awareness



a growing political awareness

1. Centralisation of standards, formalisation of data regulations, grouping of authorities or centralising authorities



CENTRALISATION/
(RE)CENTRALISATION

2. Decentralisation – opposition to standards, alternative standards, autonomous solutions, flexible solutions



DECENTRALISATION

3. Re-centralisation (new associations, new manoeuvring) – inter-agency cooperation changes from reciprocity relations to more top-down/principle-agent relations

a growing political awareness

TOP-DOWN



BUTTOM-UP

Digital habitats

Communities of practice

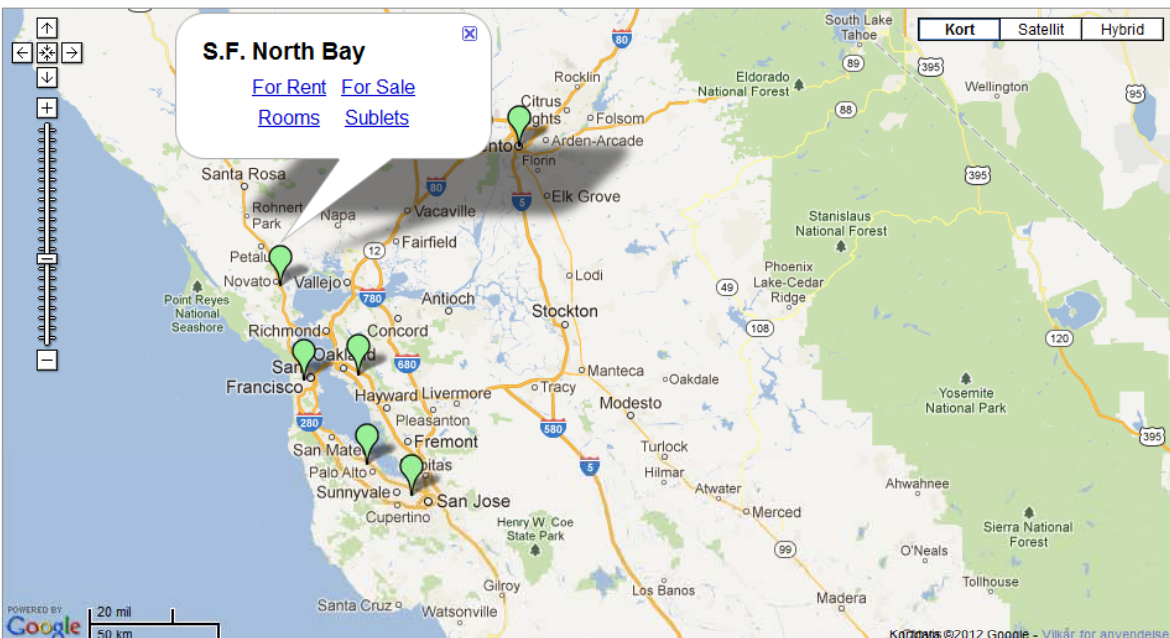
By Etienne Wenger

added value !


[For Rent](#) [For Sale](#) [Rooms](#) [Sublets](#)





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In each city, click on the  and  icons to see listings. You can also click the  and  icons next to each listing.

Yellow icons have pictures.

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added value !

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Starting point: - Airport or landmark: **or Address:**

Destination: - Airport or landmark: **or Address:**

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Map showing Atlanta and surrounding areas (Dallas, Sandy Springs, Snellville, Campton, Monroe, Redan, Conyers, Social Circle, National F, Madison, Covington, Stockbridge, Union City, Ellenwood, East Point, North Druid Hills, Mableton, Smyrna, Douglasville, Villa Rica, Bremen, Cammilton).

Kort Satellit

Los Angeles

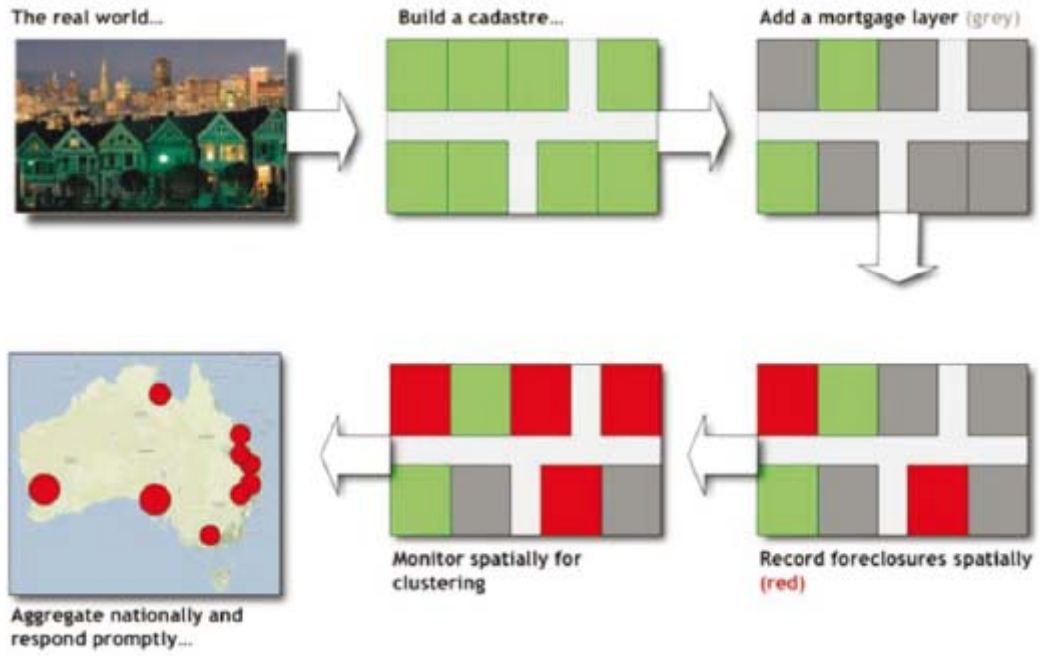
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A GFC Early Warning System



THANK YOU FOR YOUR ATTENTION

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