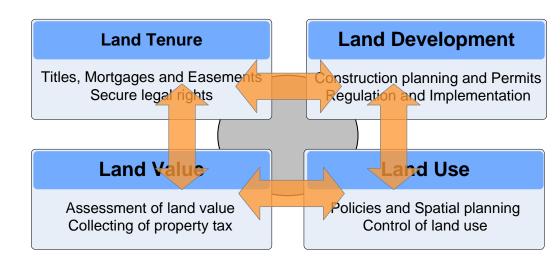


Awareness as a key factor for developing inter-organizational collaboration in land administration systems

Christian Thellufsen, M.Sc., Land Surveyor National Danish Survey and Cadastre

Inter-organizational collaboration is demanded in land administration systems

- From a singlepurpose to a multi-purpose perspective
- Spatially enabling of government
- Technology push and market pull





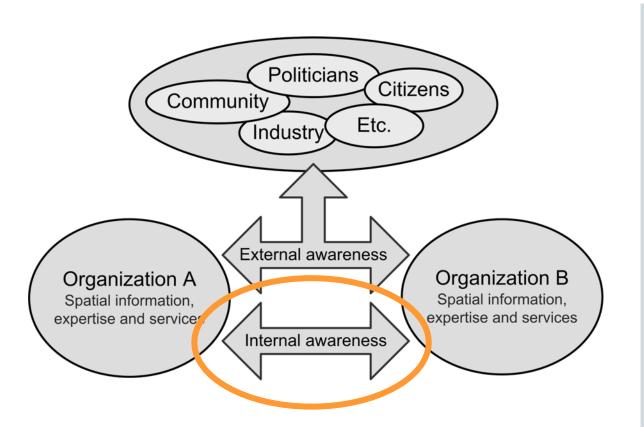
But barriers exist...

"There exist just as many reasons for <u>not</u> engaging in inter-organizational collaboration, than for doing it"



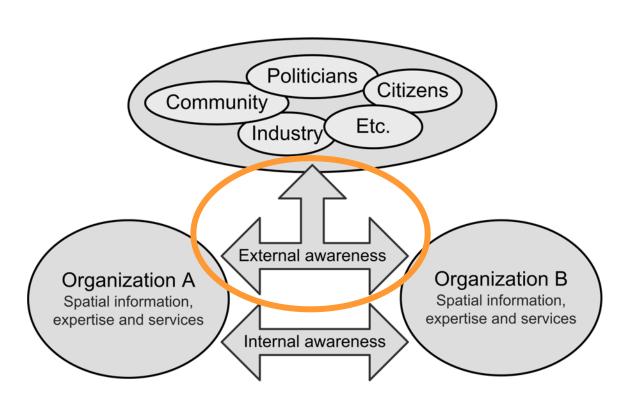
LACK OF TRUST

Awareness as a foundation for inter-organizational collaboration



Internal awareness involves the phases of recognition that allows organizations to make sound decisions in solving problems or developing solutions regarding handling of spatial information, expertise and services between the organizations

Awareness as a foundation for inter-organizational collaboration

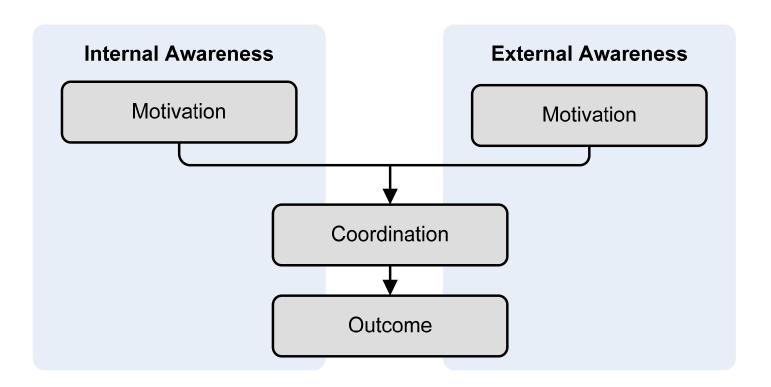


DANISH MINISTRY

External awareness

involves the phases of recognition that makes organizations recognize why and how they alone and together can make their spatial information, expertise and services available to society in order to support a social, economic and sustainable development.

Stages of awareness



Stages of awareness – Internal awareness

Internal Awareness

Motivation

Existence awareness

Awareness of other organizations in the inter-organizational network

Collaboration awareness

Awareness of shared role in the inter-organizational network

Cooperation awareness

Awareness of capabilities, resources, visions, and a need for partnership in the interorganizational network

Stages of awareness – External awareness

Need defining awareness

Awareness of society's needs and interests of the organization's information, expertise and services

External Awareness

Motivation

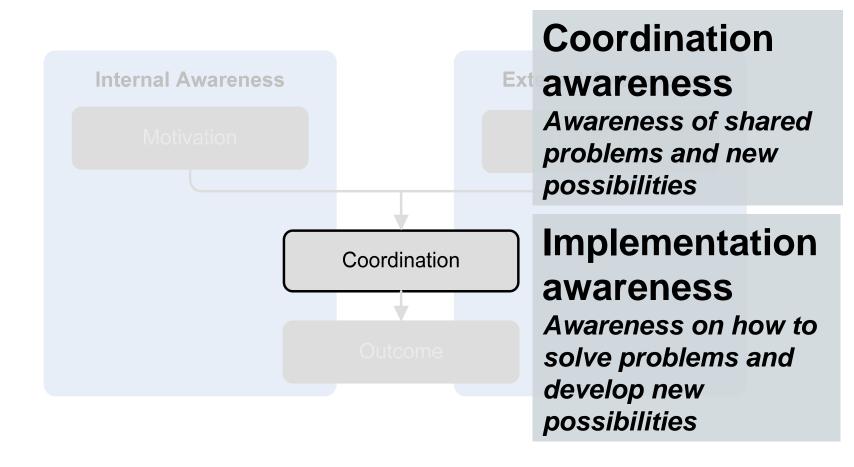
Collaboration awareness

Awareness of the role of the interorganizational network in society, and of the interdependency in the network in order of fulfilling the demands in society

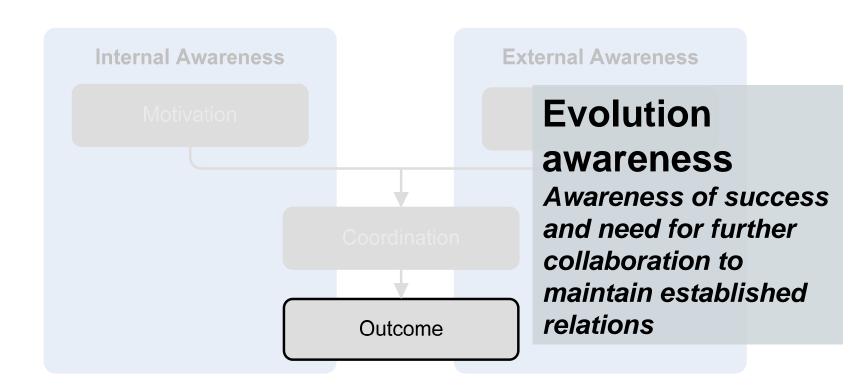
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Stages of awareness



Stages of awareness



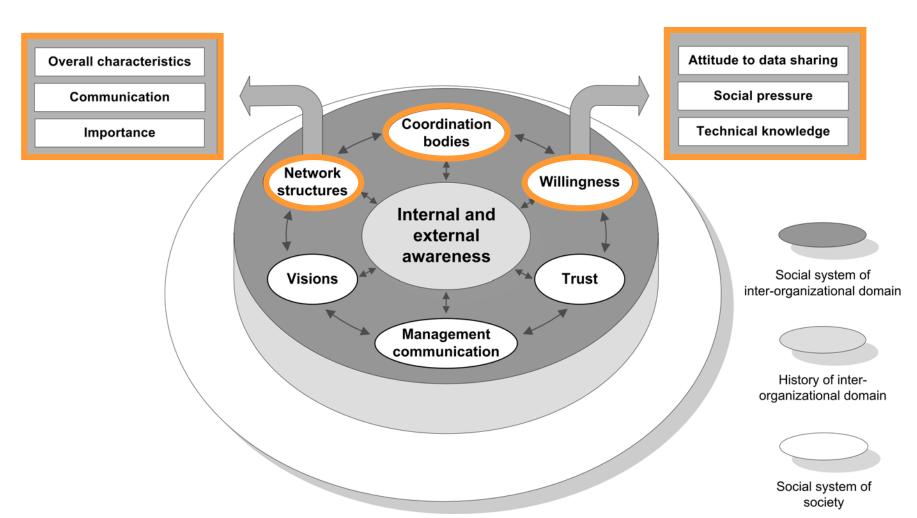
Four case studies on cadastral systems





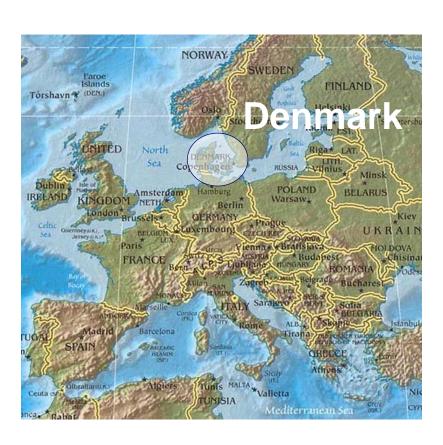
DANISH MINISTRY OF THE ENVIRONMENT National Survey and Cadastre

Evaluation Factors

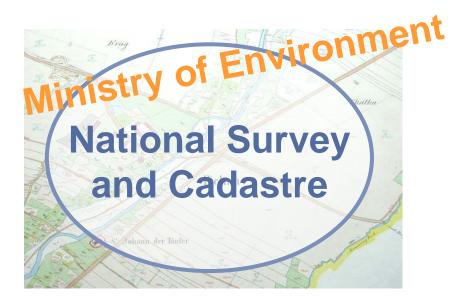




Danish cadastral system as a case



A seperated cadastral system



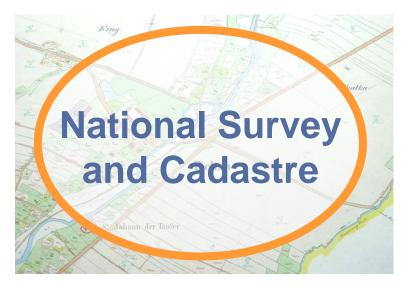
DANISH MINISTRY

Cadastral mapping



- Titles
- Mortgages
- Easements

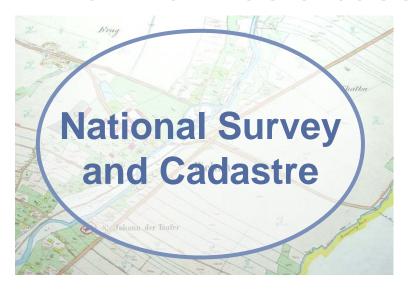
Denmark as a case





- High focus on other organizations and its own role and position in society (coordinator for SDI)
- Nummerous links exist to the Court Administration
- Highly developed communication strategies
- High level of willingness to share data
- High level of technical knowledge

Denmark as a case





- Other organizations not mentioned in strategies
- Only a few links exist to the National Survey and cadastre
- Individual courts call for collaborative constraints
- Limited willingness to share data (political constraints)
- Limited technical knowledge

Case study results

DANISH MINISTRY

External Awareness				
Overall step	Stages of awareness	Description	The National Survey and Cadastre	The Court Admin.
Motivation	Need defining awareness	Awareness of society's need and interest of the spatial in- formation, expertise and ser- vices that the organizations in the cadastral system posses and/or can deliver		
	Collaboration	Awareness of the role of the ca- dastral system in society		
	awareness Problem-setting	Awareness of organizational in- terdependency in order to reach shared goals and visions		
nation	Coordination awareness Structuring	Awareness of shared problems and/or new possibilities		

Conclusion

- Awareness is an important foundation for interorganizational collaboration in LAS
- Awareness can be separated into stages
- Awareness can be investigated through a number of associated factors
- It is not possible to measure awareness precisely
- Instead, the methodology provides a helpful tool in pointing out general collaborative problems in interorganizational relationships in LAS



Thank you for your attention

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