„The electric light did not come from the continuous improvement of candles.“

Oren Harari

Facing the
Digital Transformation
with ArcGIS Hub

Stefan Schnitzhofer
San Diego | 2019-07-09

The Ministry – Portfolio

Staatsminister Dr. Hans Reichhart

Housing

Building

Transport

Images: www.stmb.bayern.de

State Building Administration

Building Construction

» Planning, building & maintaining

» State, federal government & other clients

» > 25.000 buildings on 5.000 properties

– Administrative buildings, police and judicial buildings

– Museums, theatres

– Castles and churches

– Colleges, universities, clinics

– Military buildings

Images: StBA IN
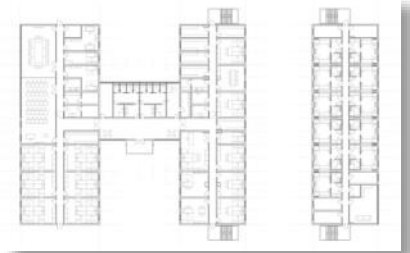
State Building Administration

Bavarian Road Administration

» Planning, building, maintaining & operating

» Roads

   – Motorways: 2.500 km

   – Federal roads: 6.000 km

   – State roads: 14.500 km

   – County roads: 3.000 km

» 14.900 bridges

» > 60 tunnels

Images: www.stmb.bayern.de

Digital Transformation
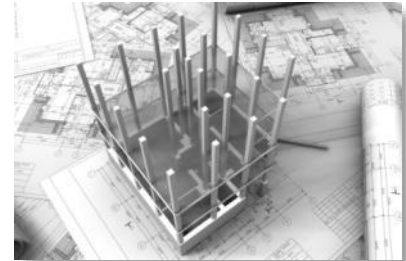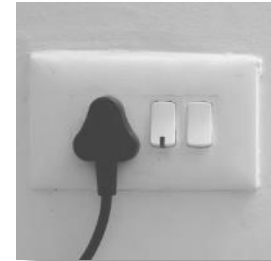
Challenges for public administrations

Actuality
Bureaucracy
Transparency
Participation
Efficency
Security
Decisions
Data
Collaboration
Technology
Availability

Digital Transformation of StMB

Section „Digitalization"

» Strategy development

» Digitalization of processes

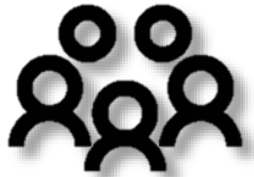» Geoinformation Systems & Spatial Data Infrastructure

» IT Security

Images: pixabay.com

Dimensions of Digitalization

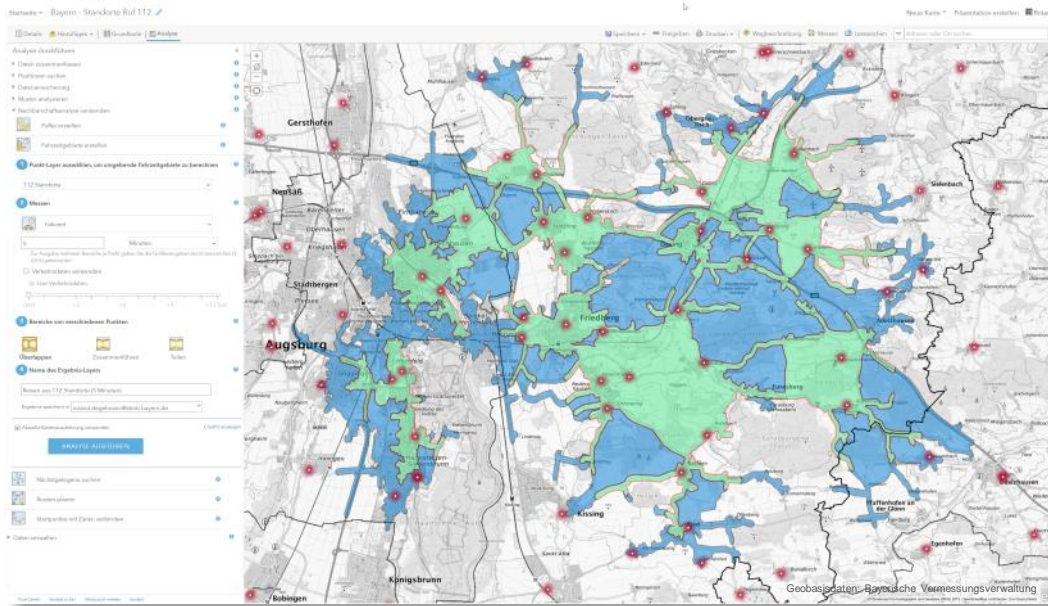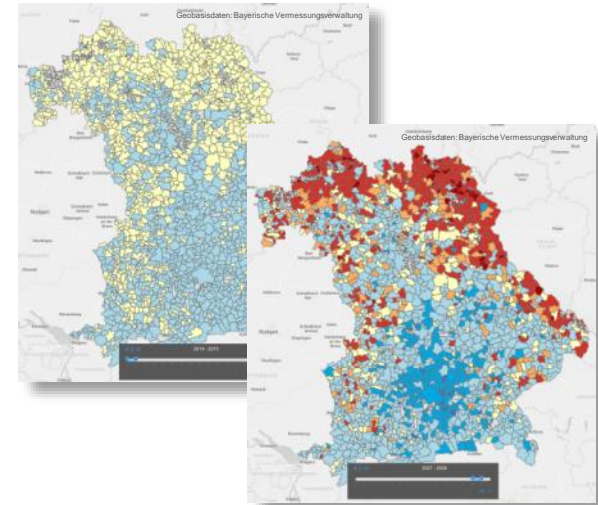**Stakeholder**   **Processes**   **Data**   **Technologies**

ArcGIS Platform
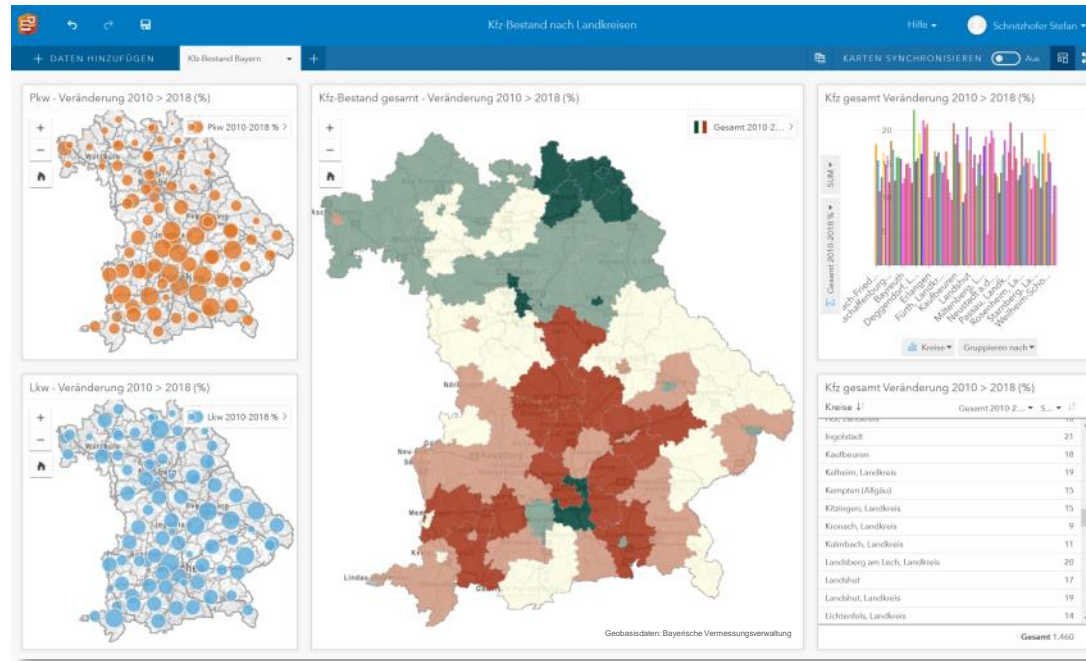
Supporting the digital transformation

Analysis

ArcGIS Platform

Supporting the digital transformation

Insights

ArcGIS Platform

Supporting the digital transformation

Dashboard
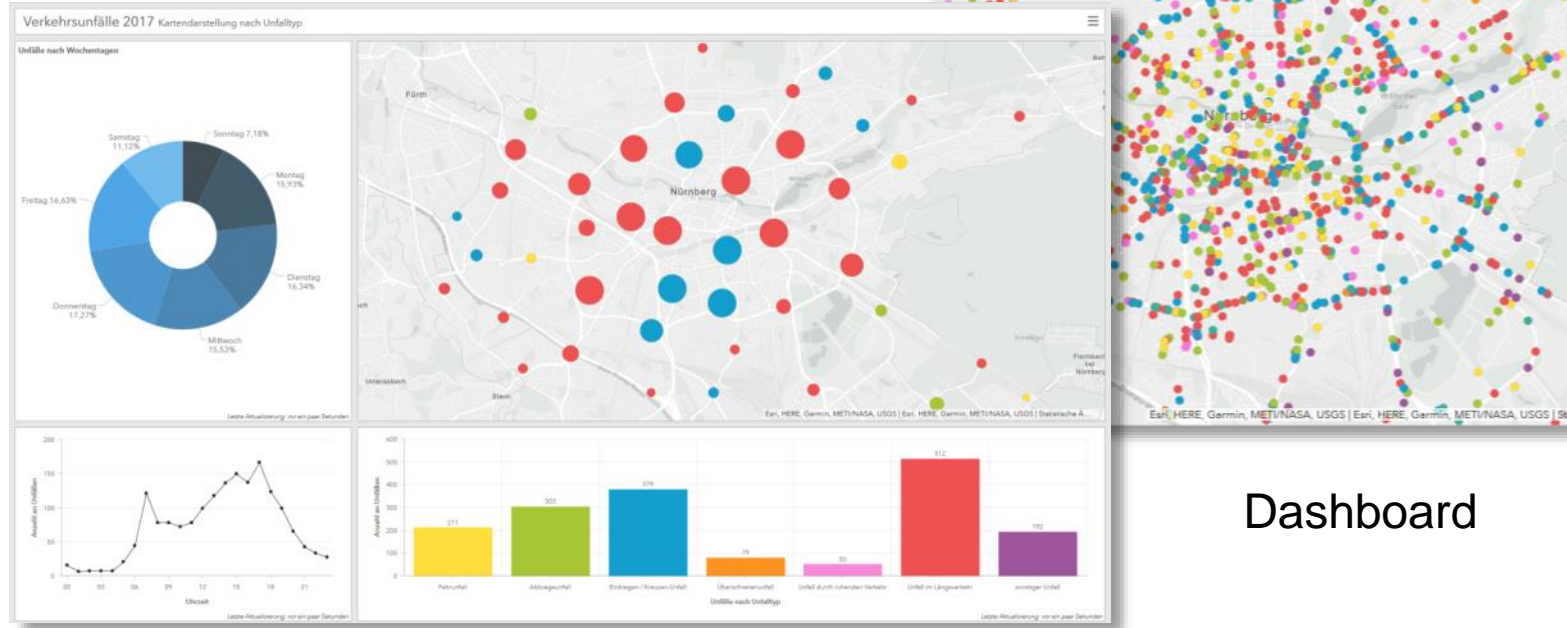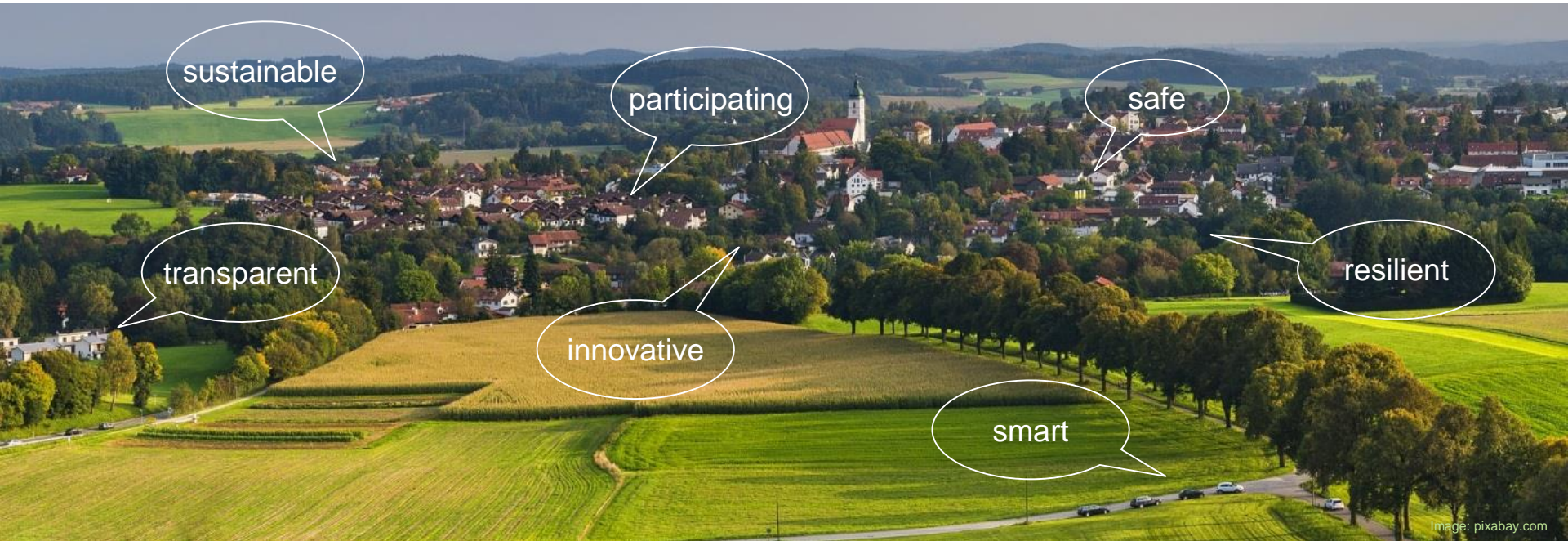
Image: pixabay.com

ArcGIS Hub
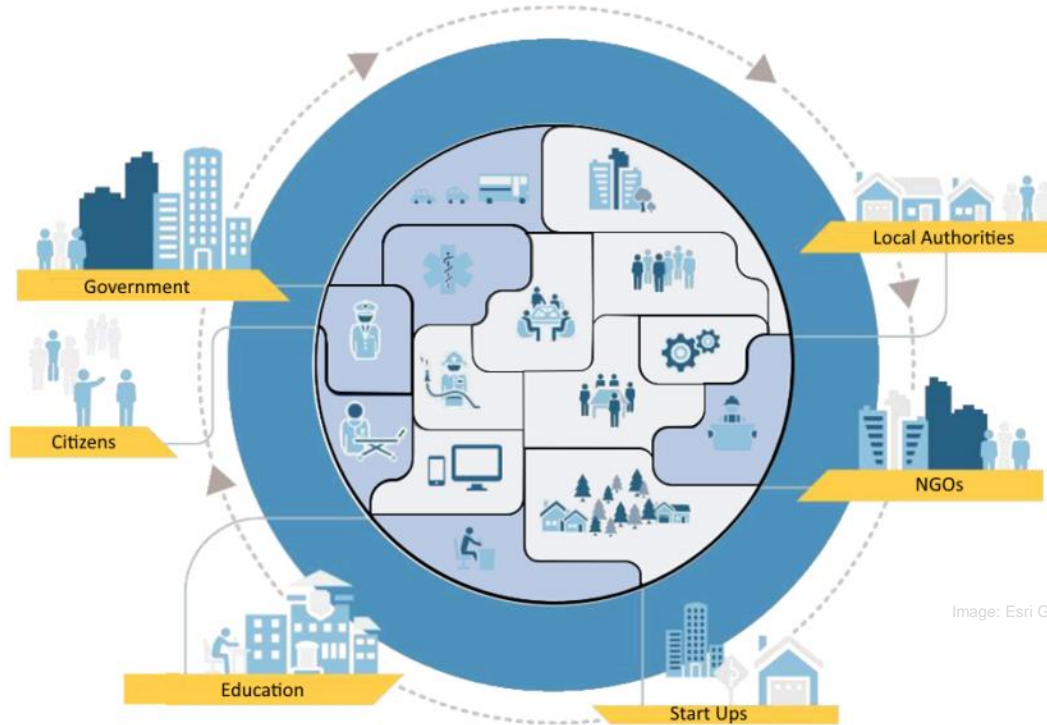
Image: Esri Germany

ArcGIS Hub

Ripening of public participation

Persons

established
public
participation

cooperation,
teambuilding

ad hoc
public
participation

information -
one-way
communication

citizens regularly
contribute data

apps
analyses,
events

data

Open
Data

initiatives

ad hoc
data sharing

Content
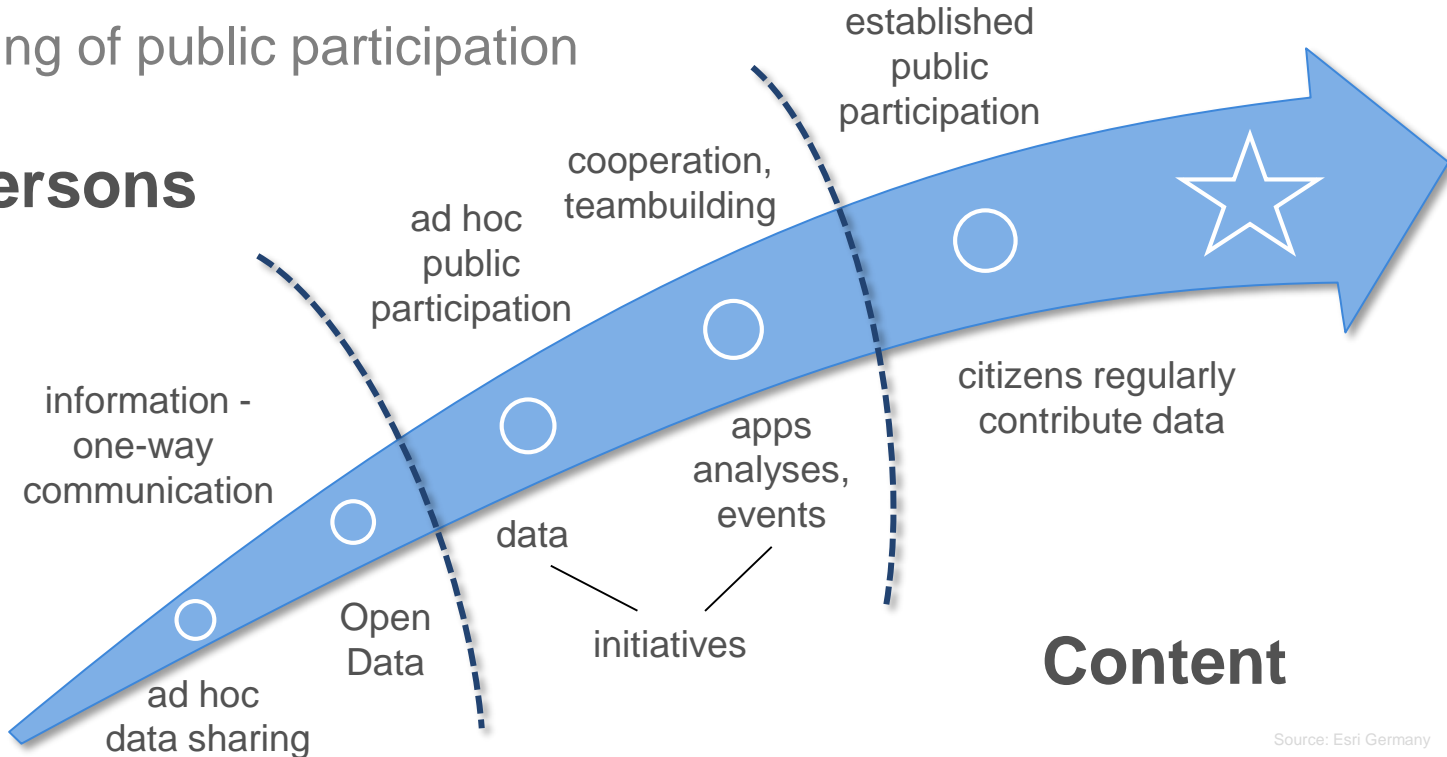
Source: Esri Germany

Ready for ArcGIS Hub?

Blueprint Workshop - Topics

Leadership & Governance	Strategy & Workflows	Technology & Data	Training & Culture	Engagement
Executive Leadership	Strategic Alignment	GIS Infrastructure	Thinking Spatially	Citizen & Press Engagement
Management Team	Location Value Assessment	Data	Culture of Innovation	Tech Sector & Business Community Collaboration
Internal Champions	Initiatives	Initiative Applications	Enterprise Collaboration	NGO Collaboration
GIS Professionals	Performance Tracking	Destination Website	Training and Education	Academia Partnerships

Source: Esri Germany

Ready for ArcGIS Hub?

Blueprint Workshop - Scorecard

Leadership & Governance		Strategy & Workflows		Technology & Data		Training & Culture		Engagement	
Executive Leadership		Strategic Alignment		GIS Infrastructure		Thinking Spatially		Citizen & Press Engagement	
Management Team		Location Value Assessment		Data		Culture of Innovation		Tech Sector & Business Community Collaboration	
Internal Champions		Initiatives		Initiative Applications		Enterprise Collaboration		NGO Collaboration	
GIS Professionals		Performance Tracking		Destination Website		Training and Education		Academia Partnerships	
Total		Total		Total		Total		Total	
								Overall Score	

Source: Esri Germany

Ready for ArcGIS Hub?

Blueprint Workshop - Scorecard

Leadership & Governance		Strategy & Workflows		Technology & Data		Training & Culture		Engagement	
Executive Leadership	7	Strategic Alignment	5	GIS Infrastructure	8	Thinking Spatially	7	Citizen & Press Engagement	6
Management Team	4	Location Value Assessment	4	Data	8	Culture of Innovation	7	Tech Sector & Business Community Collaboration	6
Internal Champions	6	Initiatives	8	Initiative Applications	8	Enterprise Collaboration	8	NGO Collaboration	6
GIS Professionals	9	Performance Tracking	7	Destination Website	7	Training and Education	5	Academia Partnerships	7
Total	26	Total	24	Total	31	Total	27	Total	25

Rating from 1 (weak) to 10 (excellent)

Overall Score	133

Source: Esri Germany

Ready for ArcGIS Hub?

ArcGIS Hub Team

Kernteam	Lenkungsgremium	Technikteam	Initiativenteams
Hub Projektleiter	Hauptunterstützer	Technischer Leiter	Initiativenleiter
Plattformeigentümer	Plattformeigentümer	Datenverantwortliche	Koordinator der Initiativen
Technischer Leiter	Interne Champions	Datenbankadministrator	Experten
Koordinator der Initiativen	Leitung Öffentlichkeitsarbeit	GIS Verantwortlicher	Bearbeiter der Initiative
Social Media & Blogger	Corporate Design	IT Verantwortlicher	Social Media & Blogger
Koordination Training	Schlüsselperson Bürgerbeteil.	UI/UX Verantwortliche	Person f. Öffentlichkeitsarbeit

Esri Account Team & ArcGIS Hub Team

Source: Esri Germany

Ready for ArcGIS Hub!

SWOT Analysis

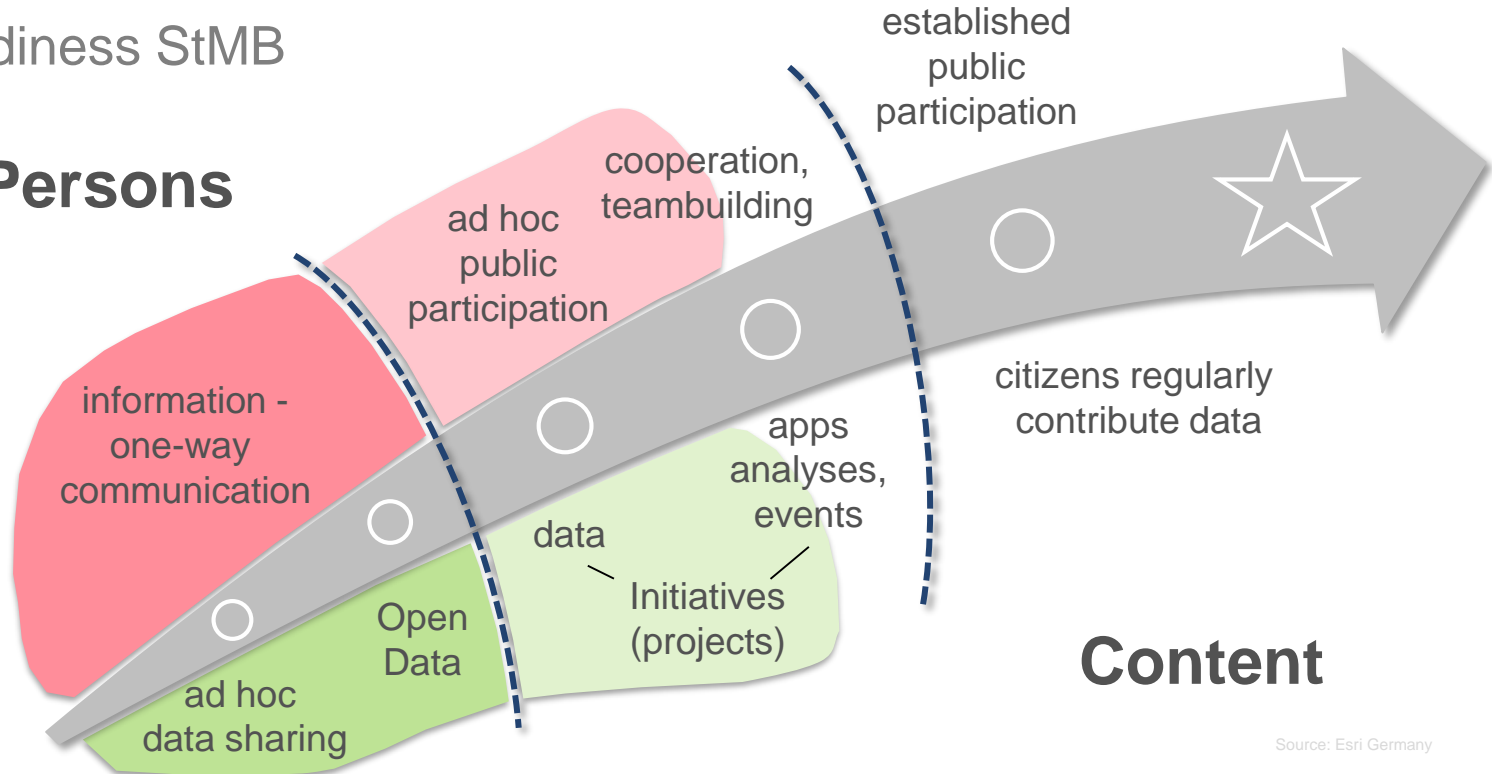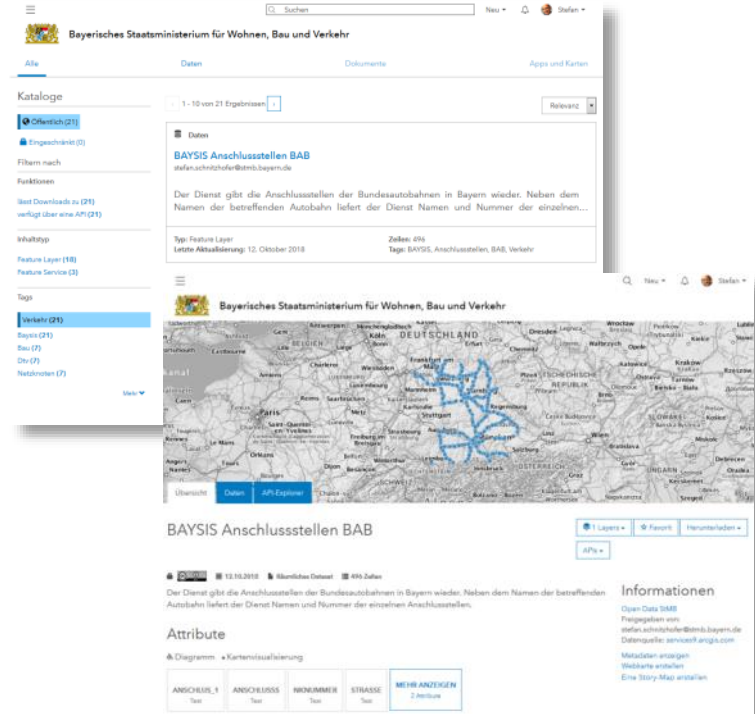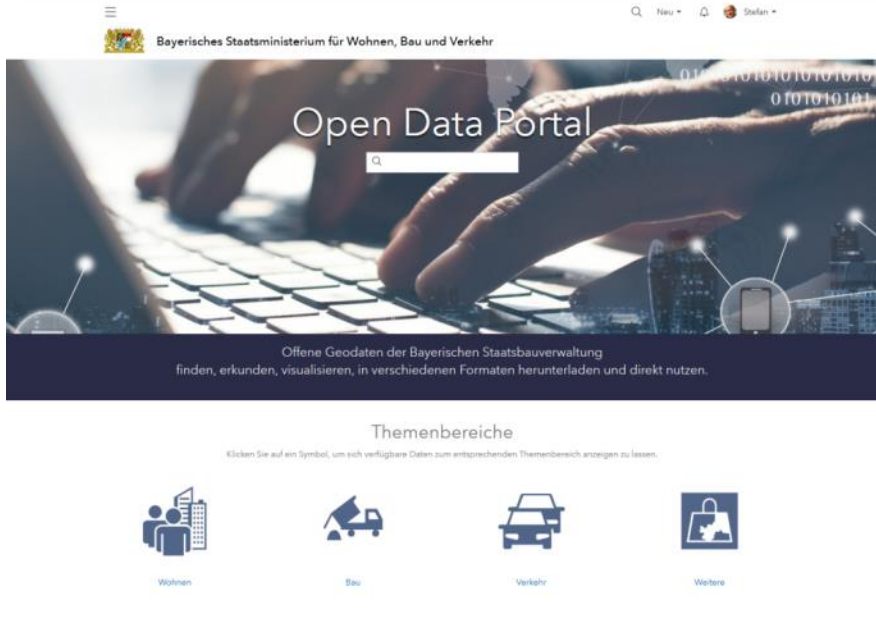|	Strengths	Weaknesses
Strengths / Weaknesses	• Availabiltity of Geodata/Open Data (⇨ Webservices) • ArcGIS expertise • Internal support & interaction • Potential for intiatives	• staff resources Awareness of the potential of geodata • Interaction with the PR department
Opportunities / Threads	• Establish spatial relevant applications at StMB • Intensify cooperation between departments • Improved interaction with the public • Increase in public accpetance	• Missing staff resources for Hub setup and initiatives • Missing support for initiatives • Effort for Hub setup is underestimated • GIS infrastructure under reconstruction

ArcGIS Hub

Readiness StMB

Persons

established public participation

cooperation, teambuilding

ad hoc public participation

information - one-way communication

apps analyses, events

citizens regularly contribute data

data

Open Data

Initiatives (projects)

Content

ad hoc data sharing

Source: Esri Germany

ArcGIS Hub

Open Data Portal StMB

ArcGIS Hub
Construction Projects

http://www.ou-landshut.de/

https://www.isentalautobahn.de/

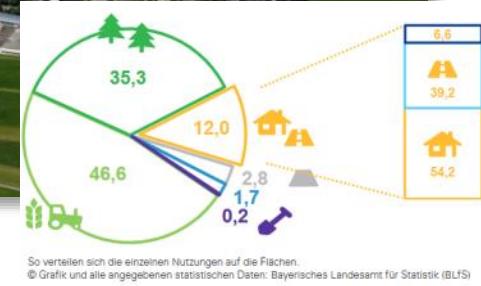https://ausbau-foehringer-ring.de/
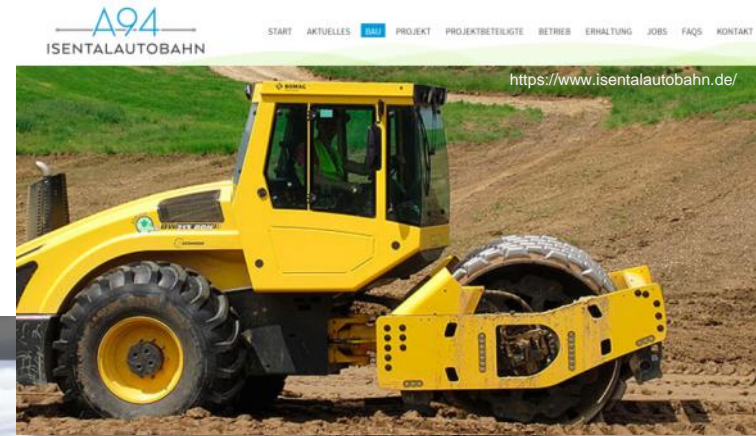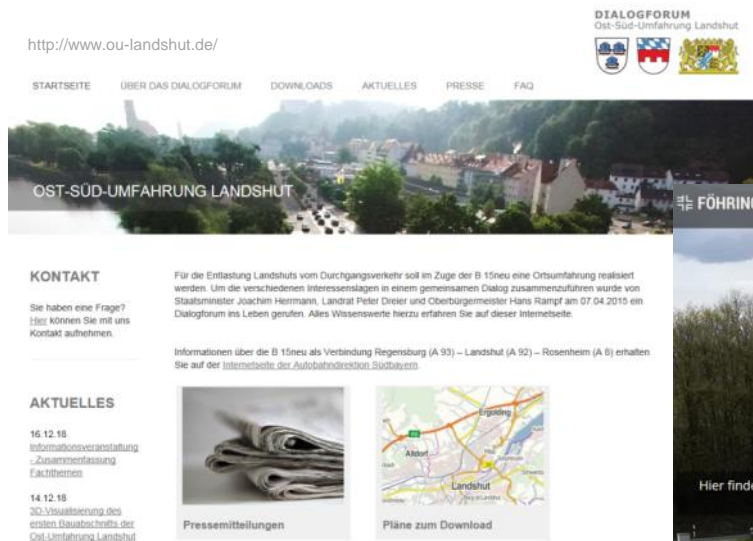
ArcGIS Hub

Discussed Initiatives

space management

road development plans

ArcGIS Hub

Discussed Initiatives

work safety

Image: pixabay.com

accessibility

Images: pixabay.com

Thank you for your attention!

Image: pixabay.com