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Land Sector FBiH Digital Transformation & Future Prospects

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Geospatial World Forum 2024, Rotterdam
National Mapping Summit

Quick facts about FGA

Decentralized
organization

FGA is under FBiH
Government

There are Cantonal
Geodetic Authorities,
and local cadastre
offices in
Municipalities (79)

Dual Land System
(Cadastre & Land
Registry)

FGA + LSU =
Cadastre

Federal Ministry of
Justice + Land
Registry offices =
Land Registry

There are 45
employees in
the FGA

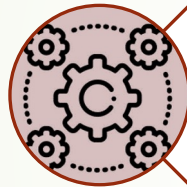
Around 750
employees in the
Land Sector in FBiH



Main goals



Improved area of surveying, basic geodetic works, cartography, etc. in the territory of the Federation of Bosnia and Herzegovina



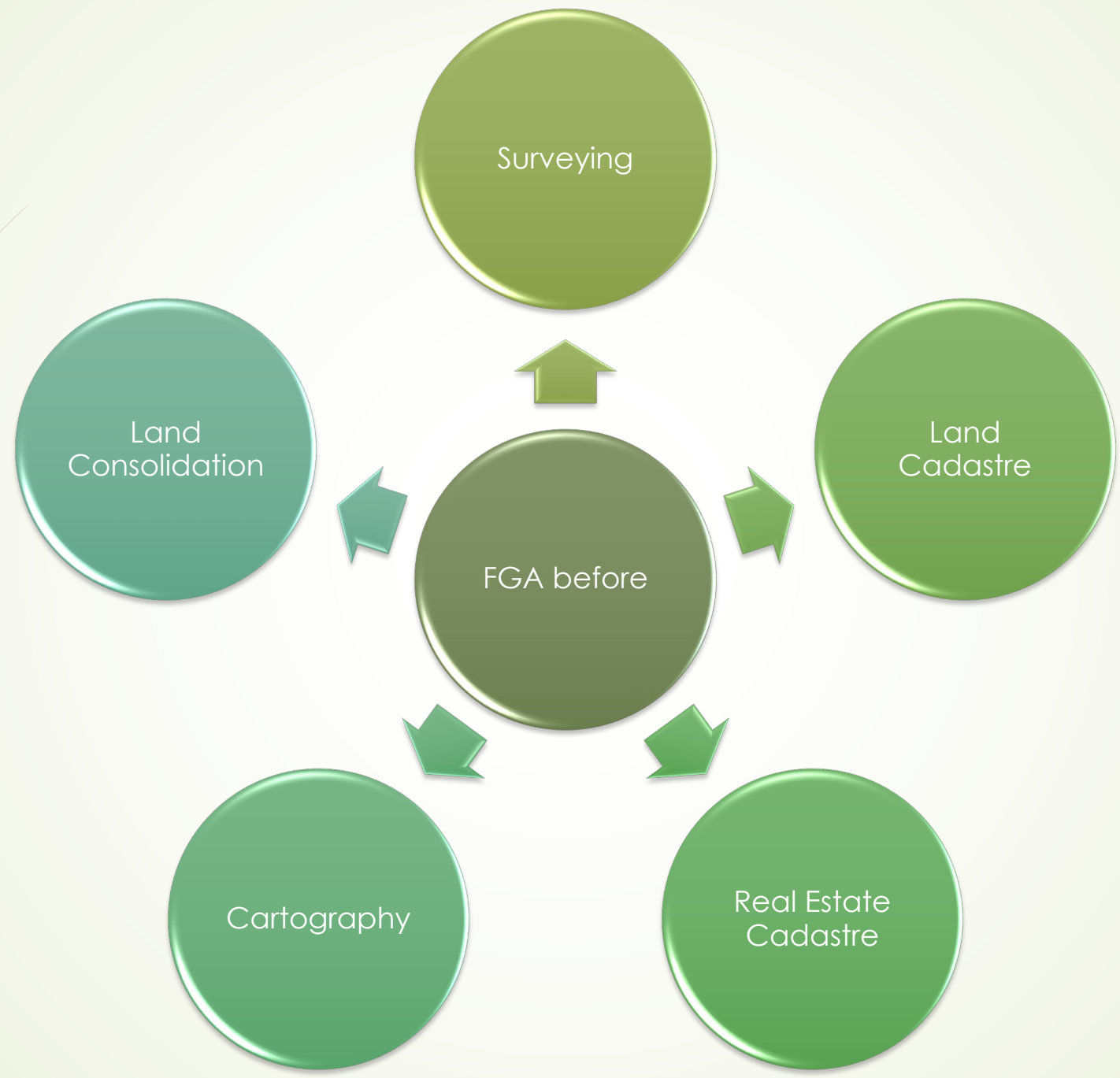
Spatial data of the FGA should reflect the actual situation on the field, with ensured collection and management in digital form in accordance with defined data models and ensured long-term maintenance of quality and interoperability.



Spatial data of FGA available to users through standardized web services and e-services



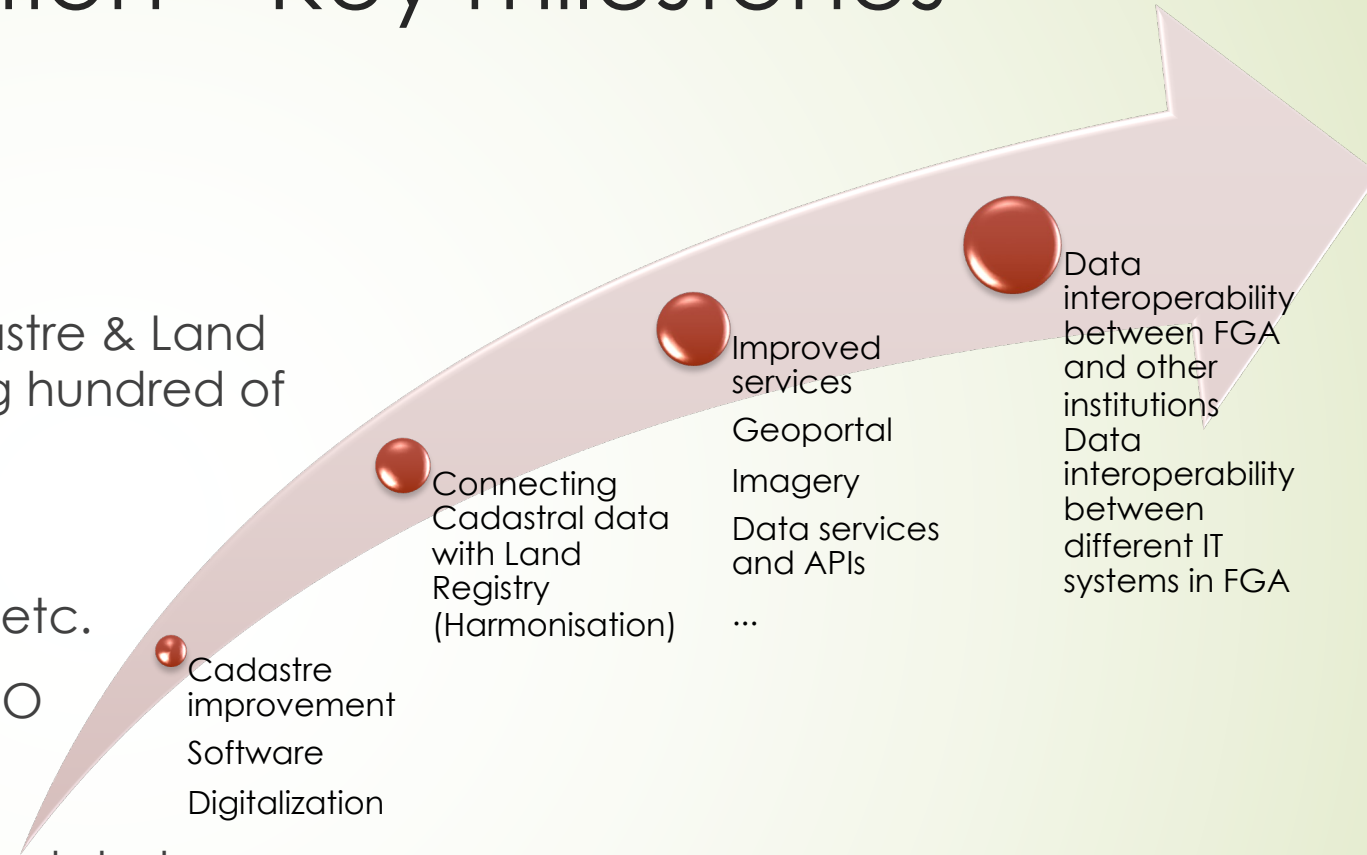
Through legal and efficient resolution of administrative matters, make a full contribution to legal certainty and raising the level of trust in state bodies.

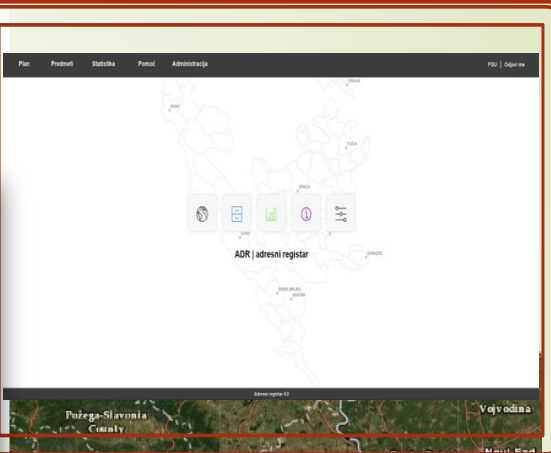
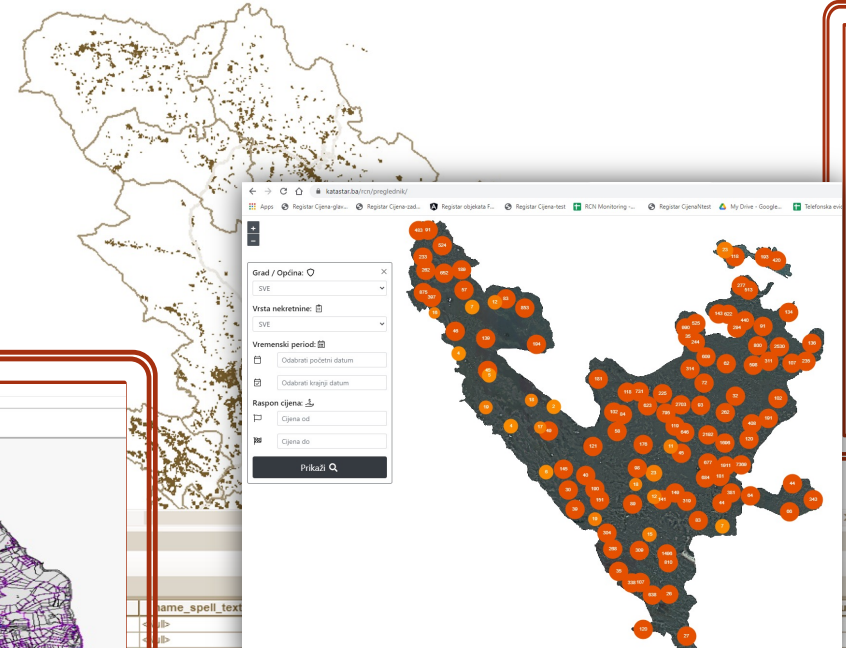
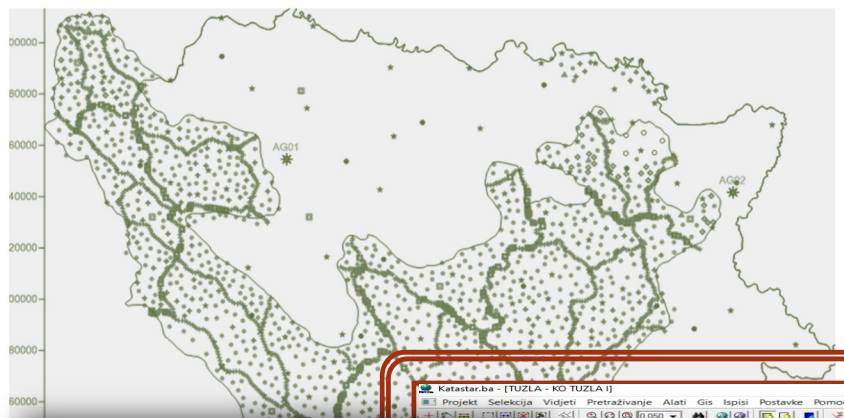




Digital Transformation – Key milestones

- Digitalization of processes
- Cadastral data is 100% digital
- Harmonisation of data between Cadastre & Land Registry – systematic approach (saving hundred of millions €)
- Digital platforms in place
- Online services for citizens, businesses, etc.
- Data standardization, INSPIRE, OGC, ISO
- Web services, APIs, ...
- FGA provides real time and up-to-date data to our users
- We focus mainly on quality
- FGA is the main data & service provider in FBiH





FGU
Federalna Agencija za Geodetske Poslove

Koristiš li ti... [Prijava]

Registar cijena nekretnina
Web preglednik

Registar cijena nekretnina u Federaciji BiH kao javni i dostupne evidencije o tržištu nekretnosti u Federaciji BiH je povećanje transparentnosti tržišta nekretnosti.

Cilj uspostavljanja i vođenja Registra cijena nekretnina je planski praćenje cijena i analiza tržišta nekretnosti, a jasnog uvida do čijih sudionika i investitorima na tržištu nekretnosti u Federaciji BiH priči lako dostupne podatke o ostvarenim cijenama i drugim karakteristikama nekretnosti na različitim lokacijama i vremenskim razdobljima.

Za potrebe transparentnosti i povećanja sigurnosti tržišta nekretnosti slobodan je uvid u sjelede podatke Registra cijena nekretnosti:

- vrišta i podrijetla nekretnine u prometu;
- približna lokacija prometovane nekretnine;
- datum zaključivanja ugovora o prodaji nekretnine;
- površina nekretnine u prometu;
- ukupna cijena prometovanih nekretnosti iz predmetnog ugovora;
- informacija da li je za predmetni ugovor bilo više nekretnosti i koje vrste.

Javni uvid u podatke Registra cijena nekretnina dostupan je od 5. lipnja 2018. godine, i osigurava informacije javnosti o cijenama prometovanih nekretnosti i nje namjeren je za profesionalni zaključivanje o tržištu nekretnosti.

FGU.com.ba
Glavna web stranica

Katastar.ba - [TUZLA - KO TUZLA I]

Projekt | Selekcija | Vidjeti | Pretraživanje | Alati | GIS | Ispis | Postavke | Pomoć | e-izbor

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katastar.ba/novogodish

Registar cijena nekretnosti

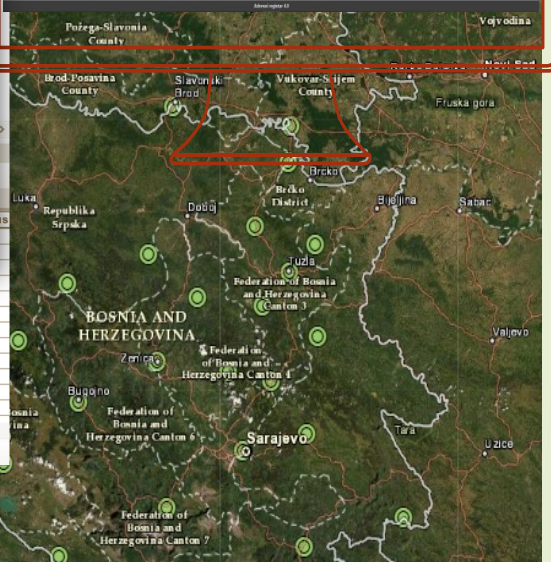
Grad / Opština: Sve

Vrsta nekretnine: Sve

Vremenski period: Sve

Razon cijena: Cijena od, Cijena do

Prikazi



Pretraga metapodatka IPP FBiH

Pretraga

Pretraga...

Pretražite skupove podataka i datoteke (2018)

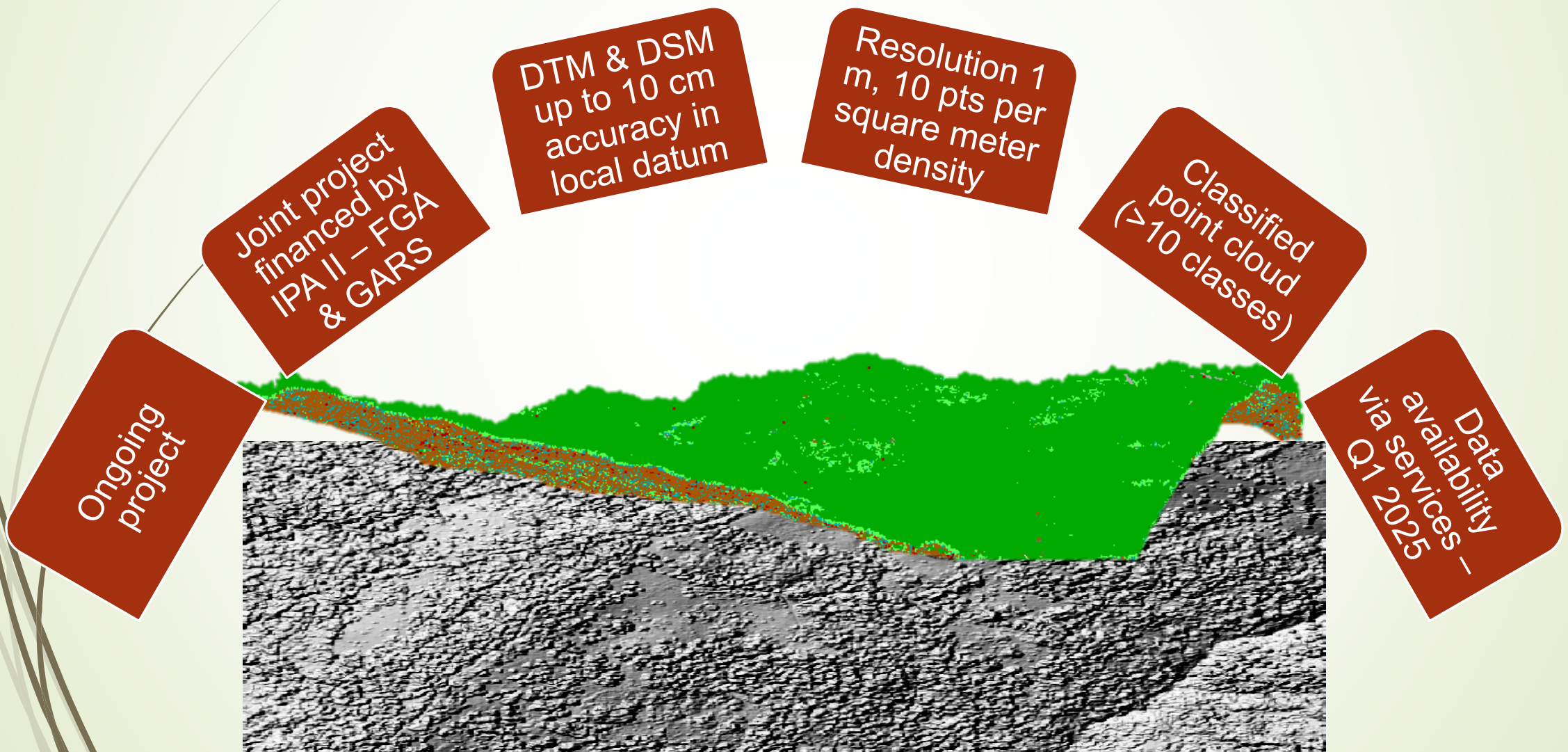
Pretraži termine o INSPIRE teme o Kategorije

- Administrativna granica
- Administrativna granica
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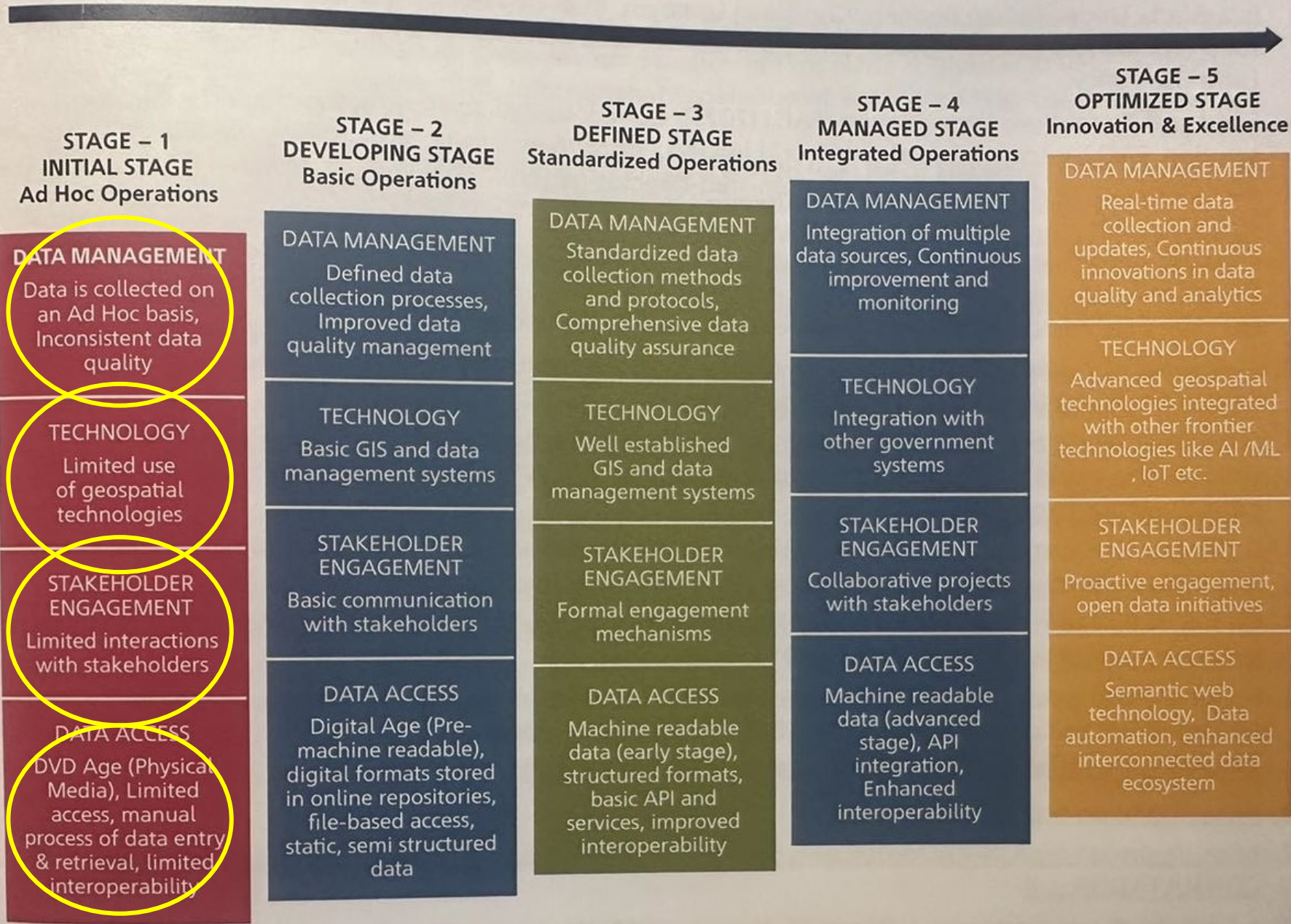
Imagery 2018 (Satellite)

Imagery 2022 (Aerial)

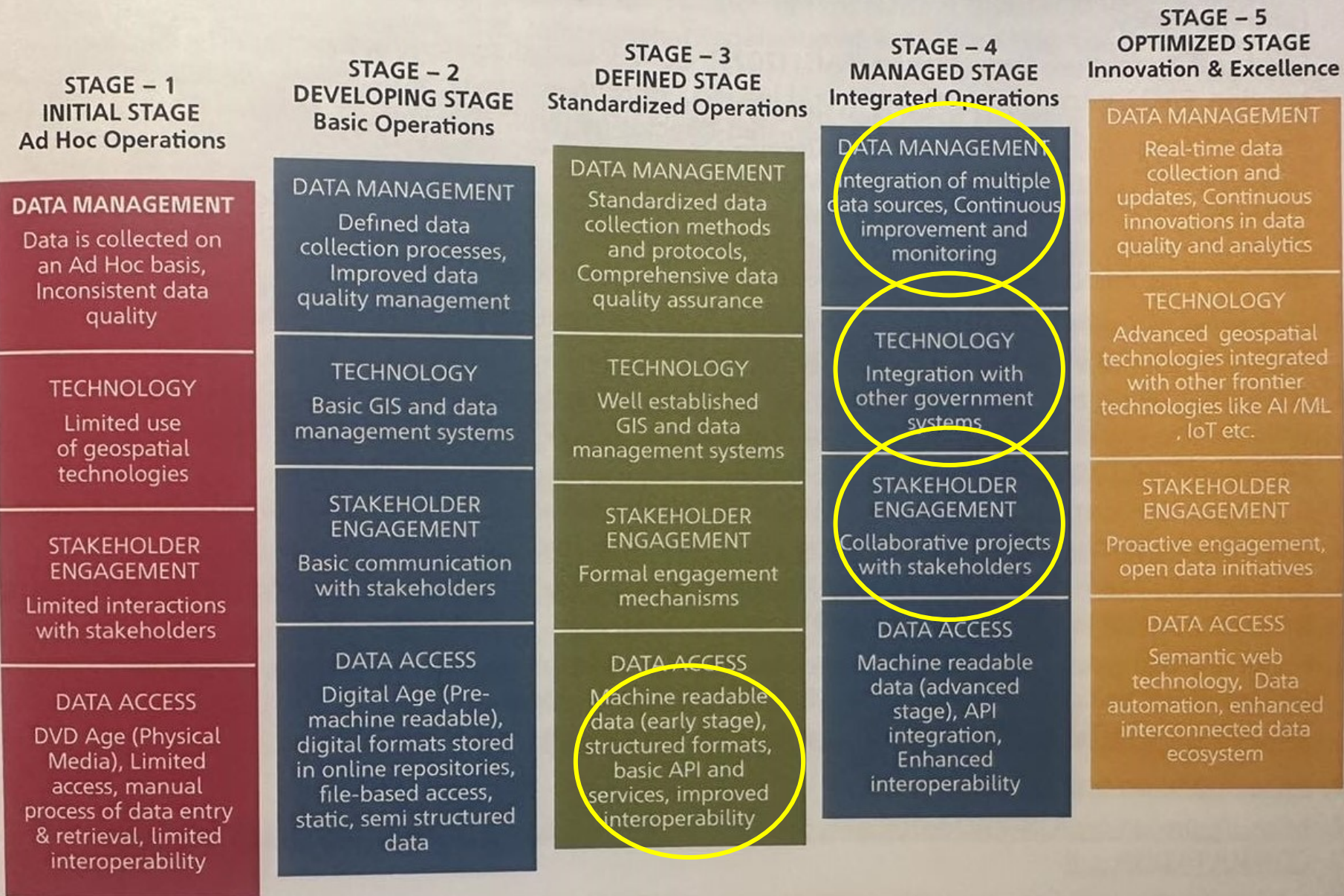
LiDAR scanning and generation of detailed elevation data for Bosnia and Herzegovina



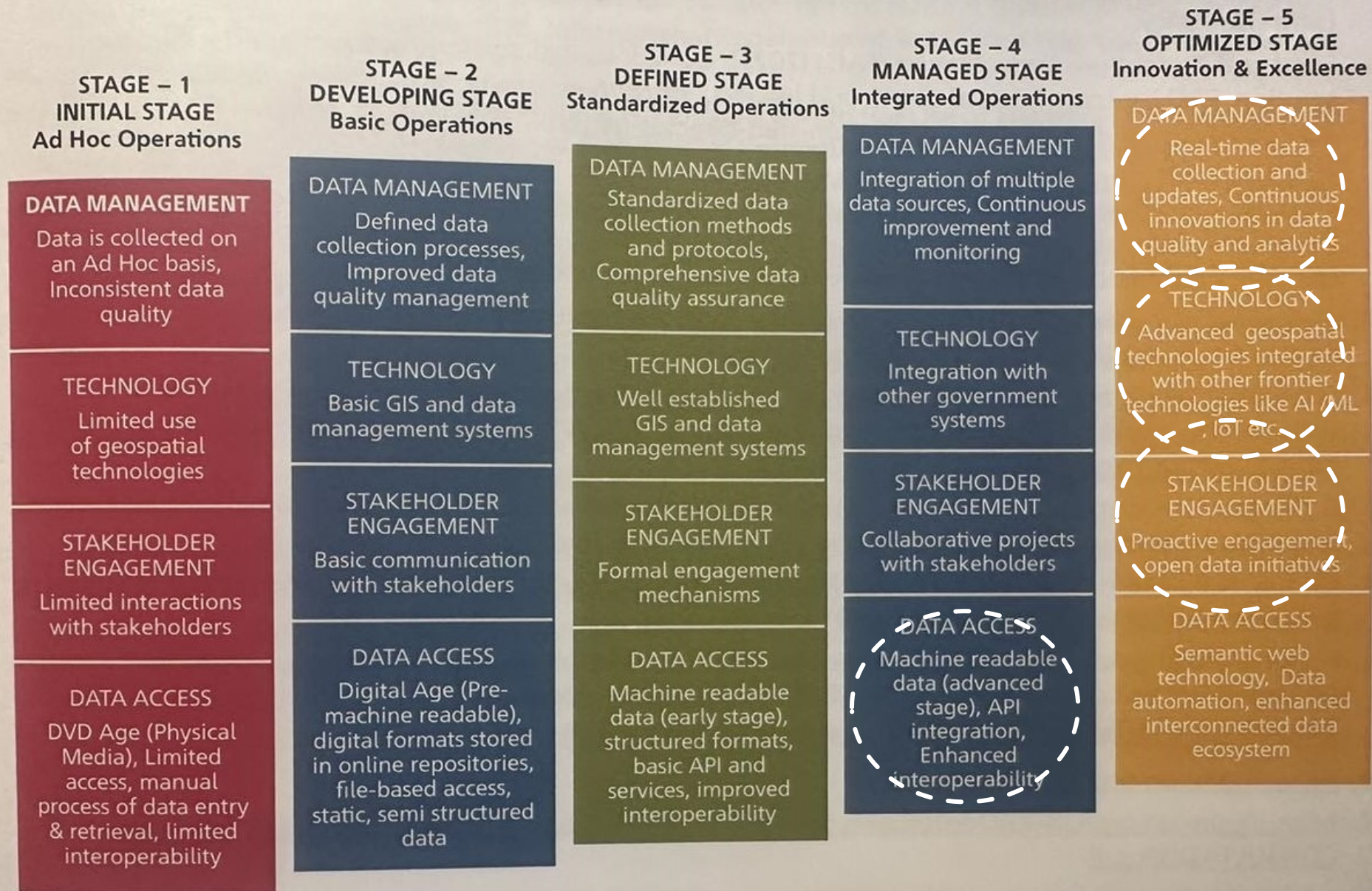
Maturity Stages of NGAs towards high socio-economic impact



Maturity Stages of NGAs towards high socio-economic impact



Maturity Stages of NGAs towards high socio-economic impact





Challenges



- ▶ Capacity building support to other data providers and users in FBiH
- ▶ Lack of human capacities
- ▶ Lack of educated experts in related fields (Geodesy, GIS, IT, ...)
- ▶ Promote importance of SDI in general
- ▶ Moving to opensource
- ▶ Business model
- ▶ **Change in behaviour**

A decorative header featuring a row of lightbulbs. A red arrow points from the left towards the word "Plans".

Plans

- ▶ Capacity building comes first!!!
- ▶ Imagery data every 2 years with improved resolution (30 cm or better)
- ▶ LiDAR data (currently in progress)
- ▶ Use LiDAR and Imagery alongside with AI/ML to enhance data acquisition and create new products
- ▶ Keep up with the technology
- ▶ New Geoportal → new architecture, optimization of data & services, central access point, AI/ML utilisation, service ready portal (view, download, transform, search, etc.), modular platform
- ▶ Offer new services and data to our users
- ▶ Geospatial AI ready
- ▶ Innovations

DELEF
Donor project (SIDA funded)

SDI, Mass Valuation and Geodesy



Main focus on Capacity building

Ongoing project (2024-2028)



Credit funds –
World Bank

Development project

Hardware
Software
Capacity building

New
Geoportal

Services
Data sharing

Data quality

Digitalization

Starting with activities in 2025



Conclusion

- We produce high quality datasets, but we don't stop here!
- We tend to be the backbone for core decision making
- Cadastre, Geodetic infrastructure maintenance, CORS network and positioning services are still our main products but we are moving forward and offer other data and services as well
- IT modernization
 - Softwares for Cadastre, Address Register, Utility Cadastre, etc.
 - Advanced cyber security based on Strategy
 - Moving to opensource (trying to be independent of commercial softwares)
- Moving forward → **slowly but safely**

THANK YOU!

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Federalna uprava za geodetske i imovinsko-pravne poslove

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