



Benefits and Challenges of Open Data in Land Administration

UNECE Webinar

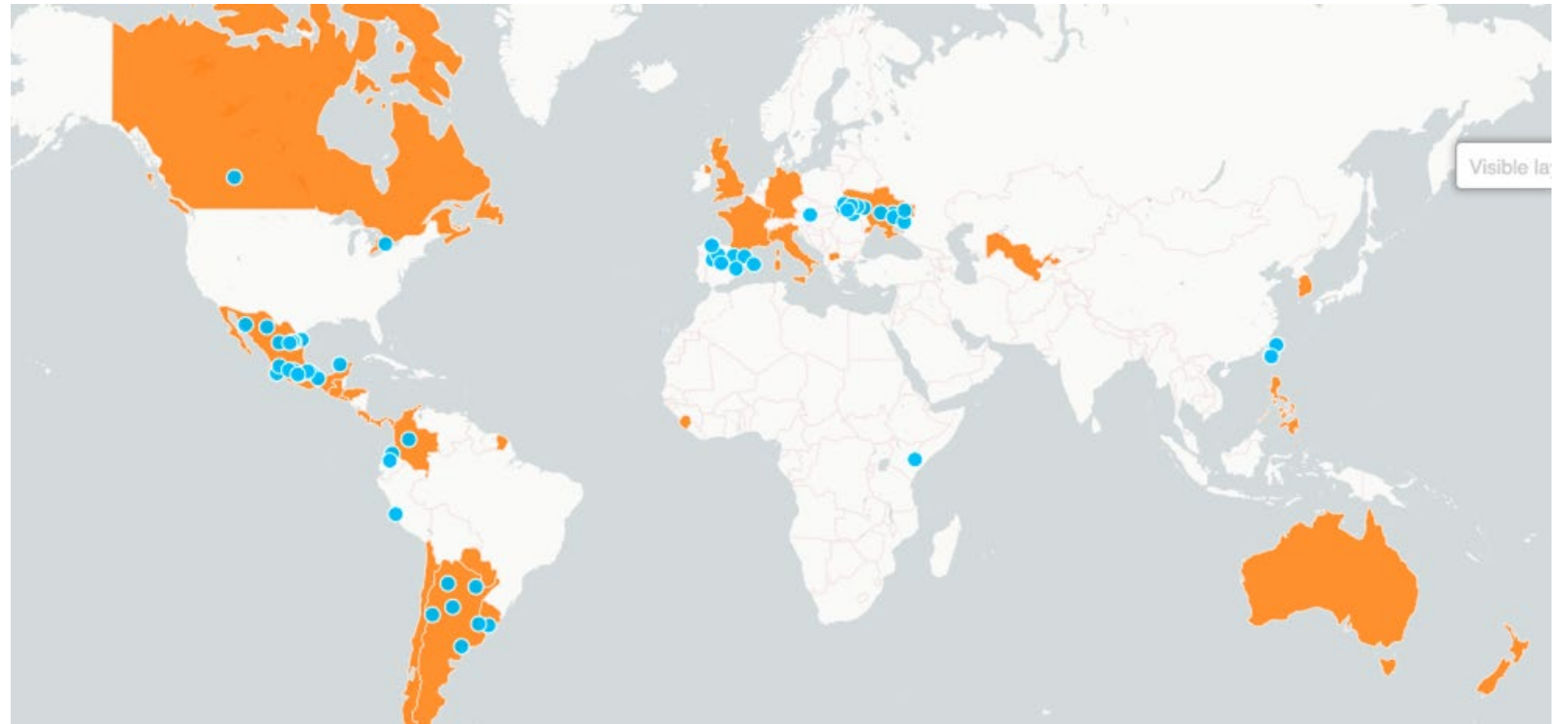
Open Up Guide on Land Governance:
Open Data for Land Administration

27 April 2022

Open Data Charter

85 gobiernos
+ **75** organizaciones

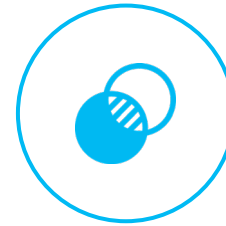
The **Open Data Charter** is a collaboration between +150 governments and experts working to open up data. It was founded in 2015 around six principles for how governments should be publishing information.



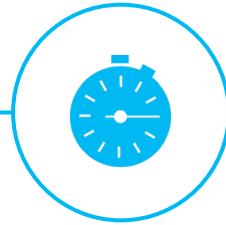
Open Data

6 global principles

Open by default

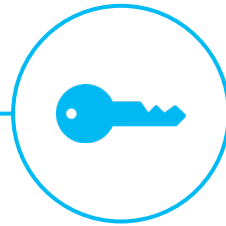


Timely and comprehensive



For Improved Governance
and Citizen Engagement

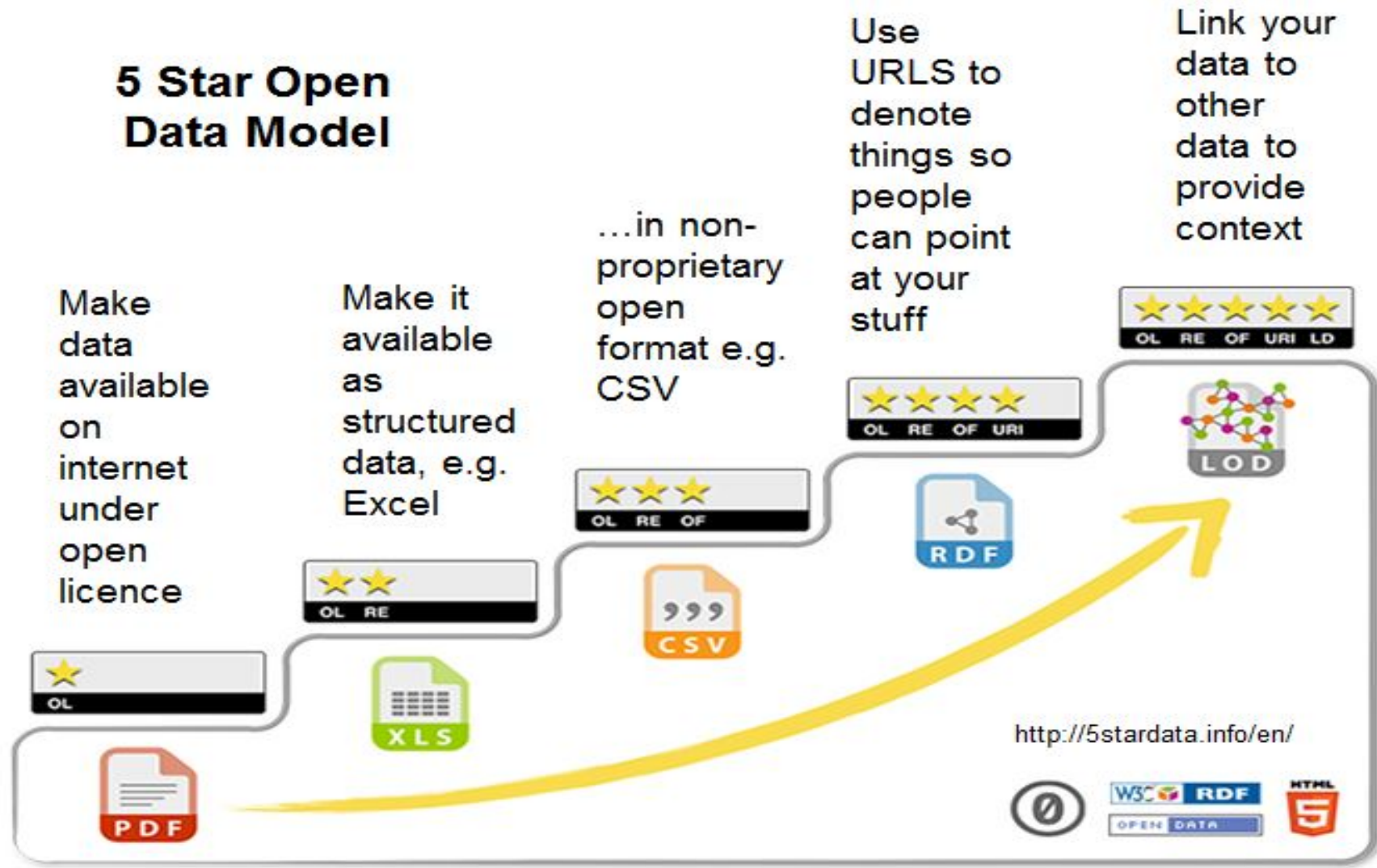
Accessible and usable



For Inclusive Development
and Innovation

5 Stars of Open Data

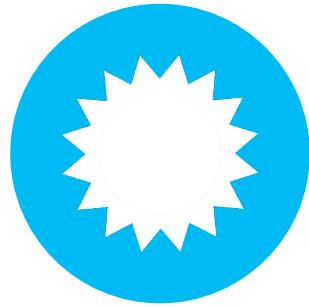
5 Star Open Data Model



Open Up Guides



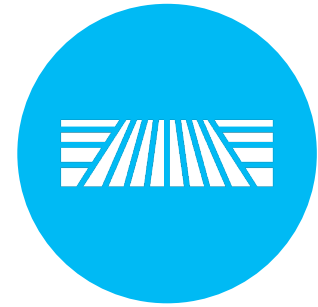
Agriculture



Climate Action



Anti-Corruption



Land Governance

Tools aimed to be used by governments to collect, manage and release sectoral data to improve data quality, availability, accessibility and use to promote citizen engagement, decision making and innovation.

Open Up Guides

Content

- Key datasets
 - How they could be collected, stored, shared and published
 - Good data policies and frameworks, including metadata, standards and governance frameworks if available;
 - Existing gaps or challenges in the policies and frameworks; and
 - Use cases from real-life examples
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Lessons Learned

1

Data and people interoperability

2

Guides are useful for multi stakeholders' conversations

3

Work with users and constant feedback from the beginning

4

Data assessments important to manage expectations

Lessons Learned

5

Data production
documentation for data quality

7

Development of APIs to
promote re use

6

Open data to promote
informed participation

8

Resource allocation and
monitor progress

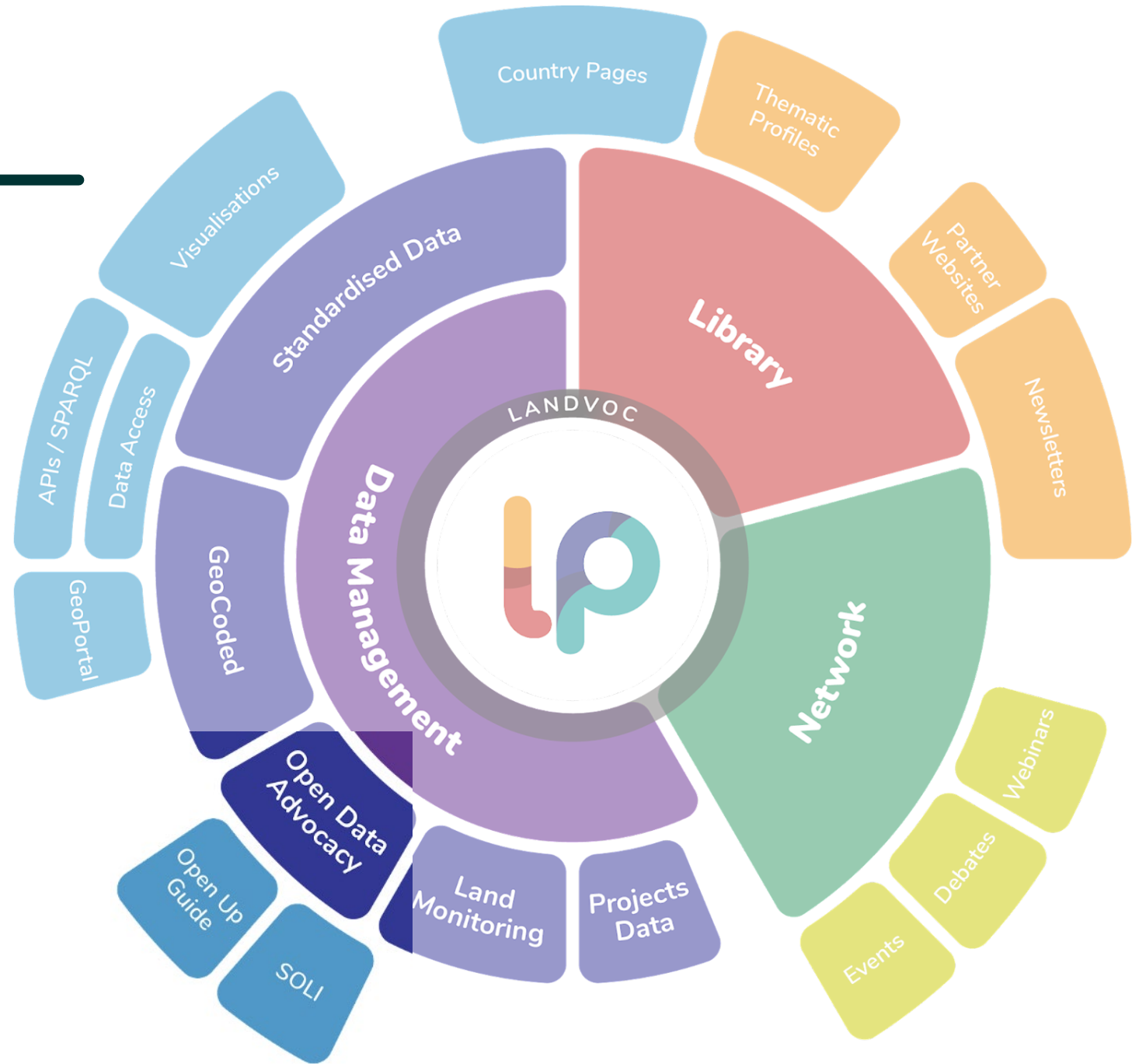
Partnering with sector-specific organizations to complement views and develop a holistic approach for Guide's implementation

Land Portal Response

Open Data Advocacy

Access to information is crucial for achieving good land governance

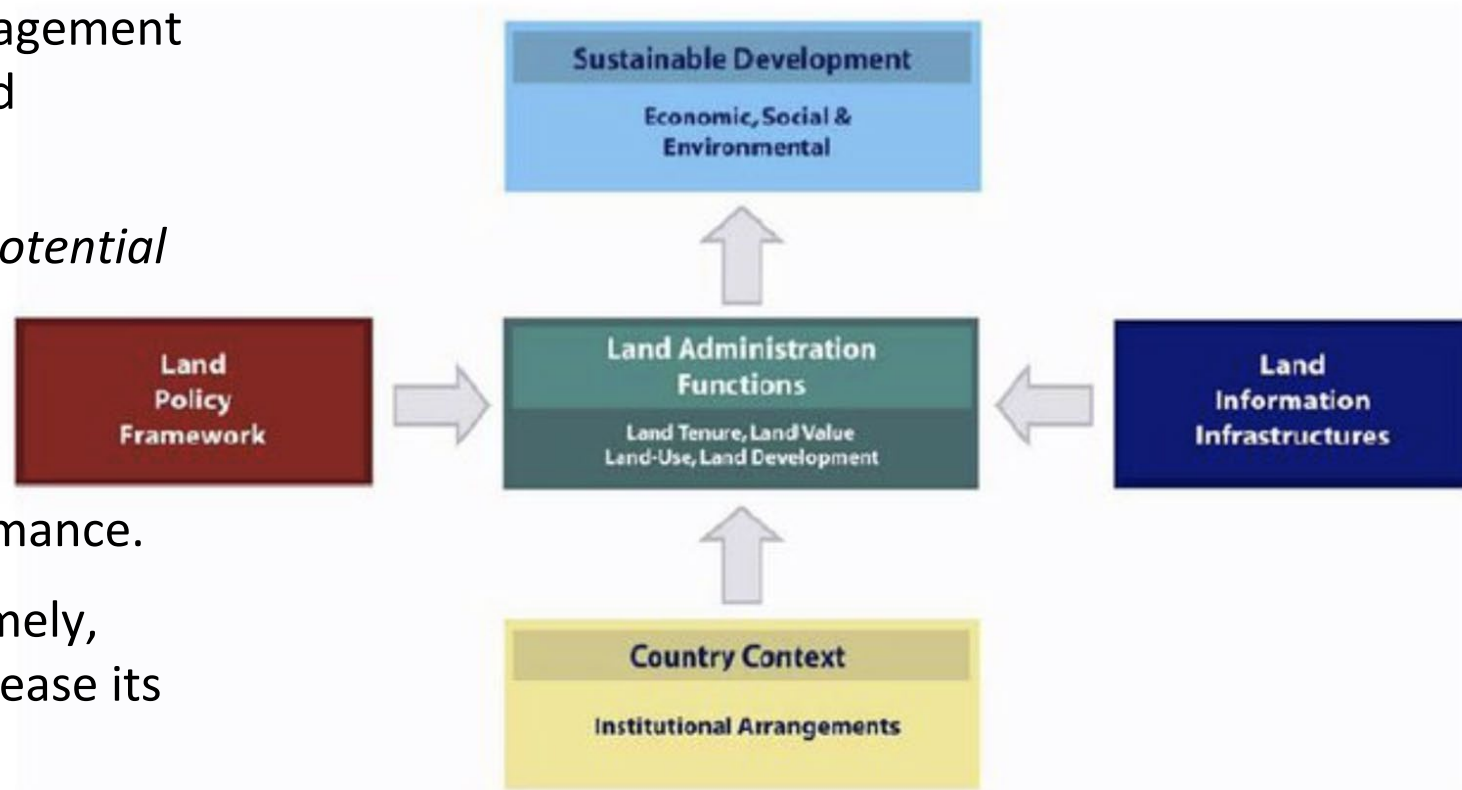
- Map the information ecosystem (SOLI)
- Support information providers from the land sector to utilize Open Data (OUG)
- Democratize the information ecosystem and strengthen flows of land governance data, from all perspectives and all levels.



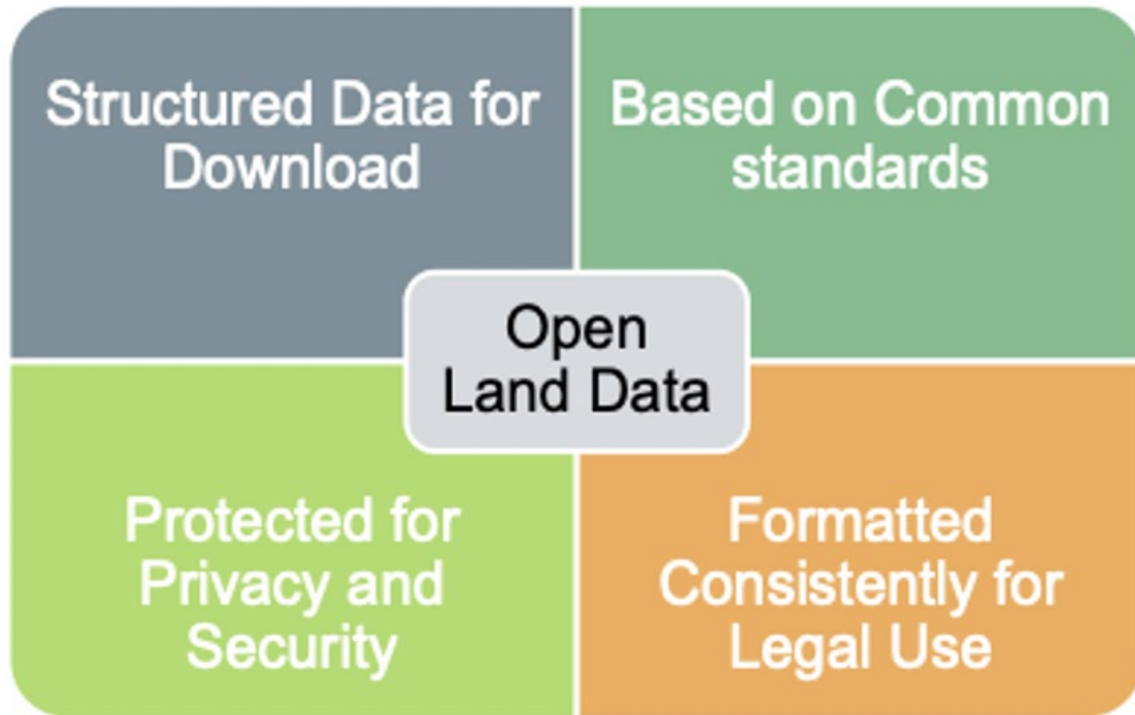
Land Administration & Land Governance

Land Governance - The way in which public actors use, control and provide access to land in a way that is socially legitimate and democratic (Borras and Franco 2010)

- **Modern land administration theory** - management of land for sustainable social, economic and environmental development.
- **Open data movement** “made explicit the potential links between open data and sustainable development.”
- Land governance data, information and indicators necessary for monitoring performance.
- Needs to be readily and freely available, timely, standardised and widely distributed to increase its impact.



Open Land Governance Data



Open Land Data

“digital land related data that is made available with the technical and legal characteristics necessary for it to be freely used, re-used and redistributed by anyone, anytime, anywhere”.

OUG Land Governance

- Land Portal has **developed a methodology to assess country level land governance information**

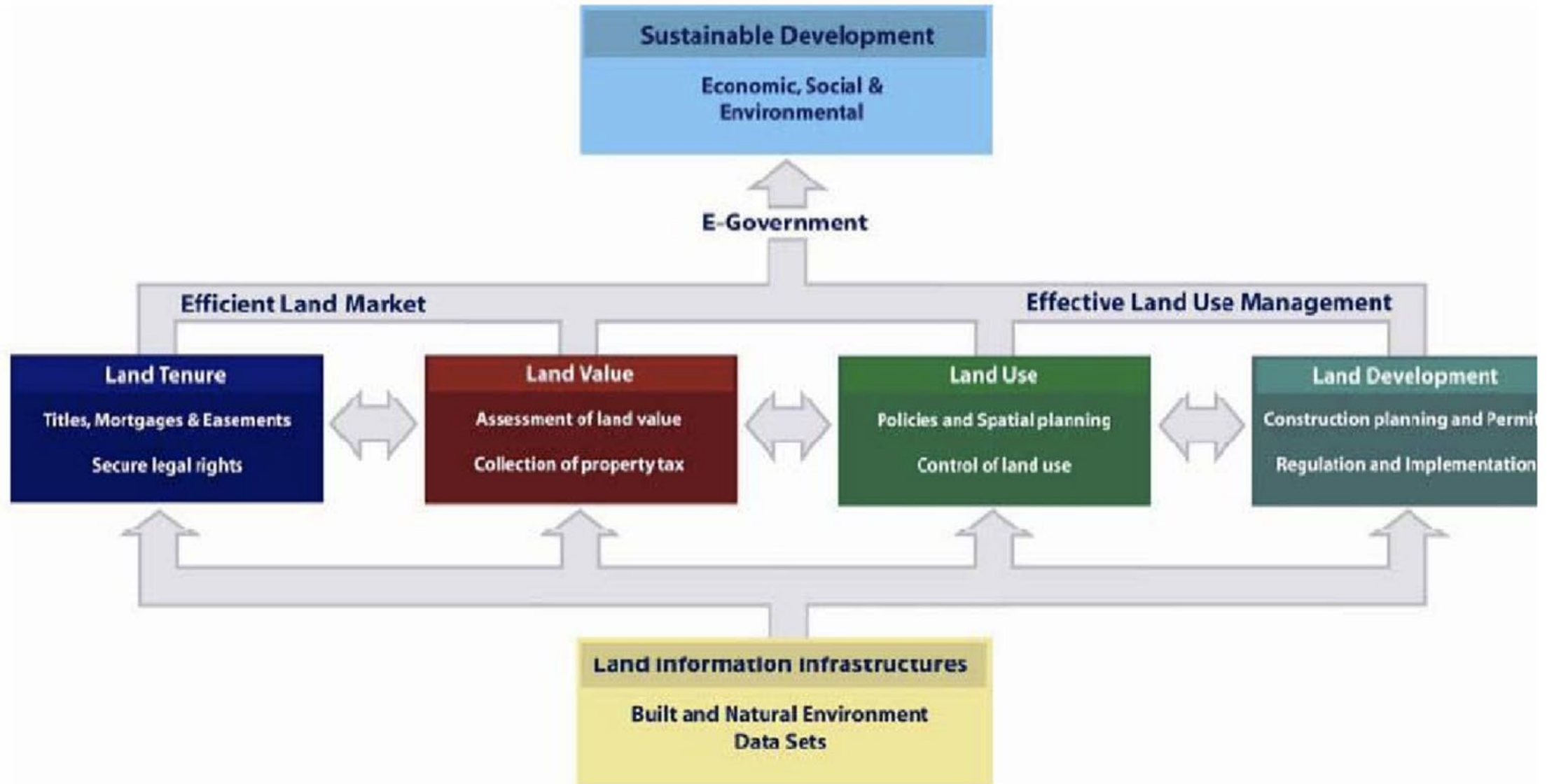
Can be used to support

- Improved data access and capacity development
- Identification of relevant land data for digitization or optimization
- Understanding of *data standards relevant for land governance data* and explored gaps in land data standardisation.
- Prioritise resources for Opening Up Land Data

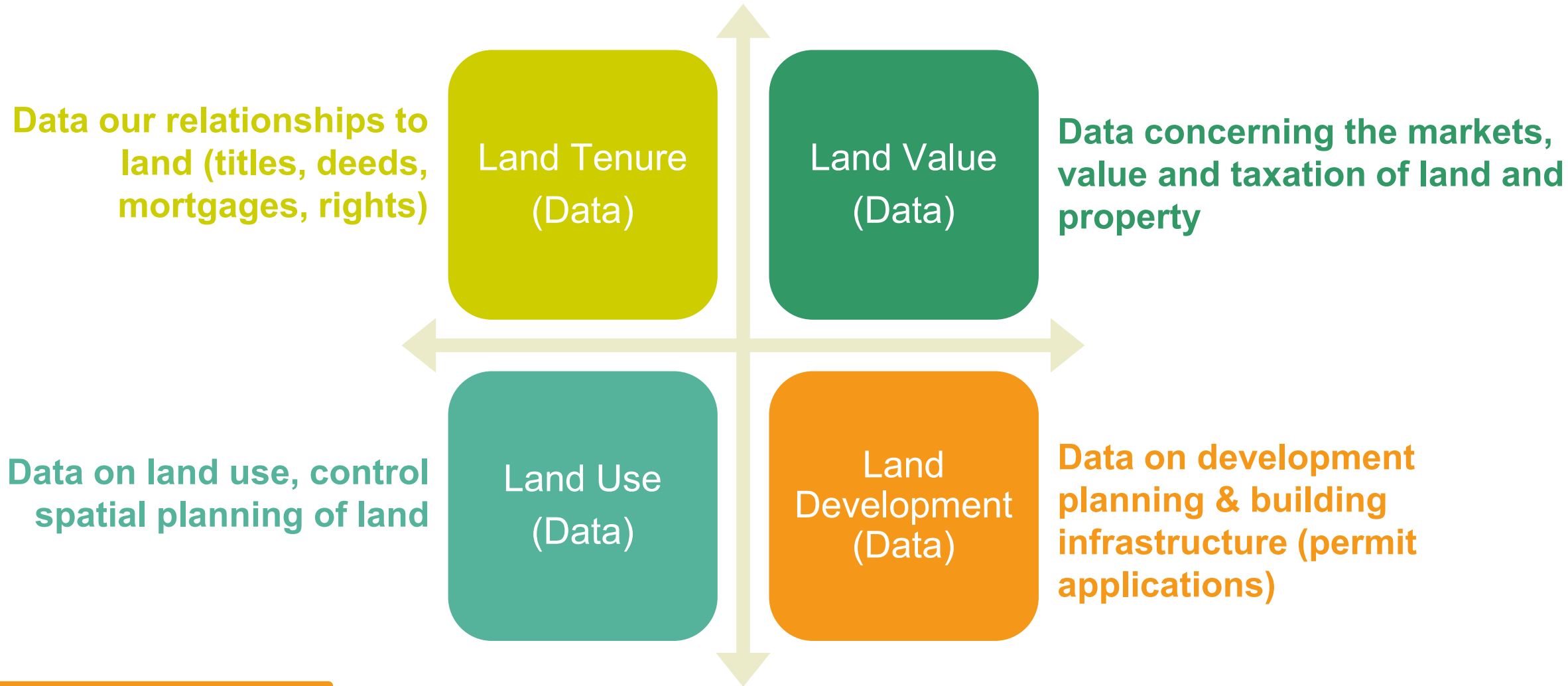
“The State of Open Data” (2019) - “large donor investments in land registration systems, few resources are made available to enable open data related to these projects”.



OUG – Land Management Functions



OUG - Land Management Data Categories



Pilot Implementation of the Open Up Guide for Land Governance

Research Methodology Overview and Guidance



Opening up land governance data is a process. There are three main components.

PHASE 1

Map the Information Ecosystem

Conduct Technical Data Analysis

Understand and describe the state of land information in the country, including a review of the policy environment.

PHASE 2

Develop Open Data Roadmap

Develop a roadmap and action plan for the future implementation of open data systems.



Pilot Implementation of the Open Up Guide for Land Governance

Research Methodology Overview and Guidance



Opening up land governance data is a process. There are three main components.

PHASE 1

Understand and describe the state of land information in the country, including a review of the policy environment.

Map the Information Ecosystem

Identify information needs and users in the Land Governance sector across the major data categories.

Identify and describe legal and policy frameworks for land data governance.

Identify land data producers and custodians at national and regional level.

Describe the production and movement of information within the ecosystem.

Conduct Technical Data Analysis

Describe the data sets identified during the information ecosystem mapping and compare against the open data compliance criteria.

Analyse the data sets in terms of the criteria identified for the technical data assessment.

Describe, understand and analyse the dynamics of information access, including political, legal, social/cultural, economic and technological factors.

Understand how information is used, shared and applied within government.

PHASE 2

Develop a roadmap and action plan for the future implementation of open data systems.

Develop Open Data Roadmap

Develop a country-level Open Data Roadmap based on mapping and analysis from Phase 1.

Identify one or more core land governance data sets that could be made more open.

The Open Data Roadmap should consider appropriate policies and standards relevant for the opening up of land data. Consider political, social and cultural conditions, as well as legal, economic and infrastructural factors that affect the flow of information.

Identify the key challenges and recommend appropriate mitigating action.

OUG - Land Data Policies and Standards

Policies:

- *The UN GGIM Framework for Effective Land Administration (FELA) (GGIM, 2020)*
- *The Addis Ababa Declaration on Geospatial Information Management towards good land governance for the 2030 Agenda*
- *The 14 Global Fundamental Geospatial Data Themes (United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), 2019)*
- *Open Licencing Policies (Also look at National Level Examples – New Zealand, Canada, United Kingdom)*

Standards:

- *ISO 19152:2012 Land Administration Domain Model*
 - *Open Geospatial Consortium (OGC) Standards and Resources*
 - *ISO/TC 211 Multi-Lingual Glossary of Terms (MLGT)*
 - *LandVoc, a standards controlled vocabulary developed by the Land Portal Foundation related to land governance.*
 - *Cadastre and Land Administration Thesaurus (CaLAThe)*
 - *EITI, the Global Standard for the Good Governance of Oil, Gas and Mineral Resources*
 - *Beneficial Ownership Data Standard*
 - *Open Contracting Data Standard (OCDS)*
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Issues and Challenges

Current State – Limited Land Tenure Data Online, even when digitized

Social and Political Concerns - Opening up land governance data should improve public sector land administration. Reforms must be beneficial for government in terms of service provision.

Increase Trust – Citizens and government must trust the data and the intentions for opening up of the data.

Inequity – Open Data should be used to reduce inequity, not facilitate inequality

Build Value-Added Government Services – Revenue generated from open data services should address fears about the loss of revenue.

Open Data Policies at National Level - Introduce policies for the collection, storage, stewardship, publication, and use of all of the government's data for land governance.

Analytical and Technical Capability – Improve advanced information analysis capability for improved land governance decision making based on open data



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Thank you

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