



Urban Studio:

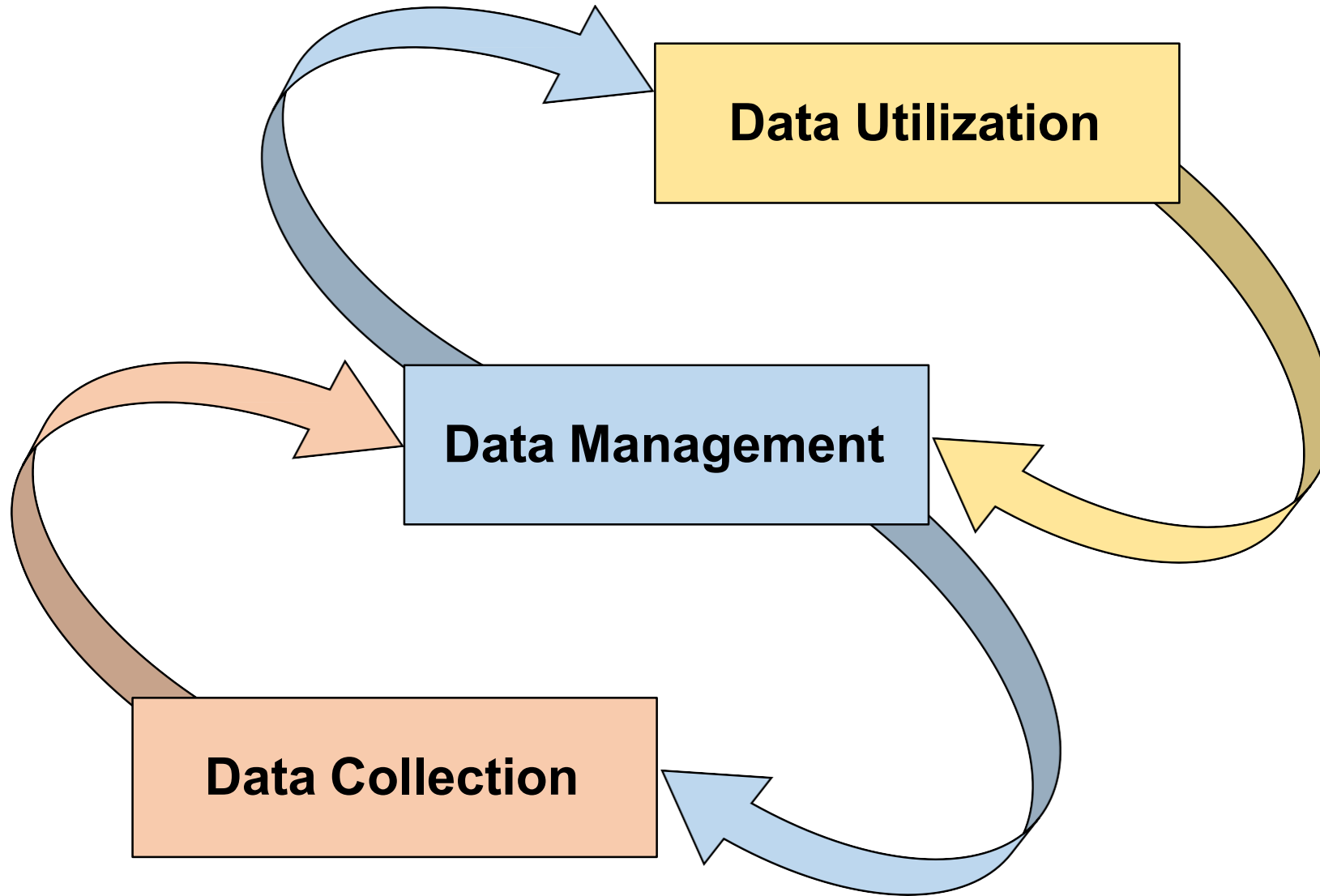
ADB Urban Data Collection, Management, and Utilization – Status Quo and the Way Forward

Renard Teipelke

1 March 2017, ADB HQ, Manila

This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

Guiding Questions



How do **WE** currently collect, manage, and utilize data?

How do **OTHERS** currently collect, manage, and utilize data?

How could **WE** improve our data collection, management, and utilization?

Your Viewpoints

Card 1: Please note the **three most common sources** from where you get your project-related basic urban data?

Card 2: Please note **two challenges** you regularly encounter in finding or using urban data in your projects?

Card 3: Please note **one suggestion** that you have for improved ADB urban data collection, management, and/or utilization?

How do **WE** currently collect, manage, and utilize data?

How could **WE** improve our data collection, management, and utilization?

Your Viewpoints

Common Sources

Card 1: Please note the three most common sources from which you get your project-related basic urban data?

How do **WE** currently collect, manage, and utilize data?

Your Viewpoints

Common Sources

Card 1: Please note the three most common sources from which you get your project-related basic urban data?

Regular Challenges

Card 2: Please note two challenges you regularly encounter in finding or using urban data in your projects?

How do **WE** currently collect, manage, and utilize data?

Data Platforms of Other Organizations

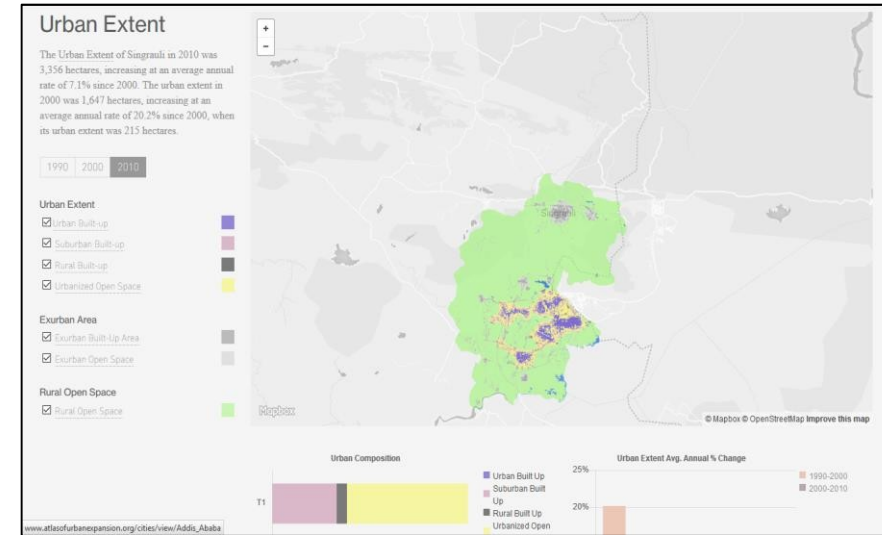
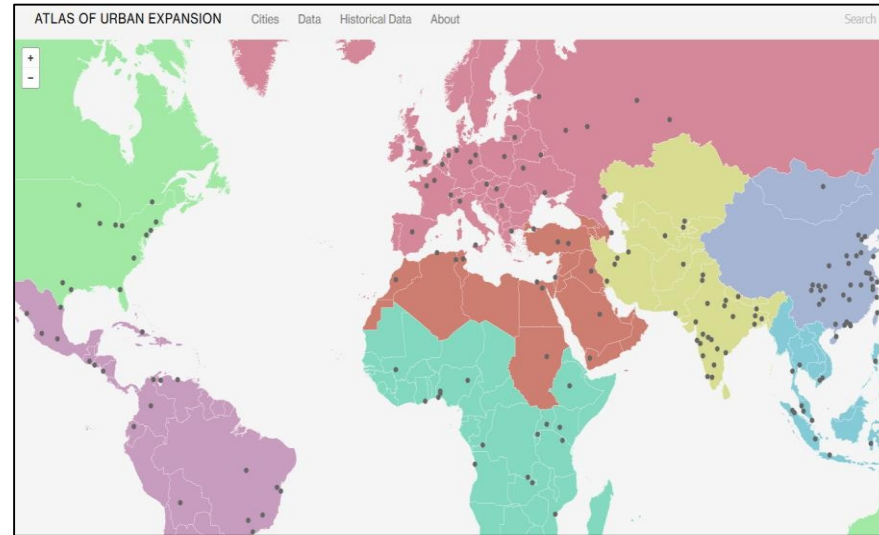
- IMF DataMapper (International Monetary Fund, http://www.imf.org/external/datamapper/v4/NGDP_RPC@WEO/OEM_DC/ADVEC/WEOWORLD)
- World Bank Open Data Portal (World Bank, <http://data.worldbank.org/>)
- World DataBank (World Bank, <http://databank.worldbank.org/data/home.aspx>)
- Platform for Urban Management and Analysis (World Bank, <https://puma.worldbank.org/tool/>)
- Numbers for Development Open Data Portal (Inter-American Development Bank, <https://mydata.iadb.org/>)
- UN data (United Nations, <http://data.un.org/>)
- Global Health Observatory (World Health Organization, <http://www.who.int/gho/en/>)
- Environmental Data Explorer (United Nations Environment Programme, <http://geodata.grid.unep.ch/>)
- UNEP/GRID-Geneva Data Portal (United Nations Environment Programme/Center for Environmental Information, Assessment, and Early Warning Activities, <http://datacore.grid.unep.ch/geonetwork/srv/eng/catalog.search#/home>)
- UN-Habitat Urban Data (United Nations Human Settlements Programme, <http://urbandata.unhabitat.org/>)
- Water Information Network System (United Nations Educational, Scientific and Cultural Organization, <http://ihp-wins.unesco.org/>)
- Atlas of Economic Complexity (Harvard University, <http://atlas.cid.harvard.edu/>)
- Atlas of Urban Expansion (Lincoln Institute/New York University, <http://www.atlasofurbanexpansion.org/>)
- Resilience Atlas (Conservation International, <https://www.resilienceatlas.org/>)
- Reconnecting Asia (Center for Strategic and International Studies, <https://reconnectingasia.csis.org/>)
- How Cities Are Governed (London School of Economics and Political Science, <https://urbangovernance.net/en/>)
- Fragile Cities (Igarape Institute, <http://fragilecities.igarape.org.br/>)
- Fiscally Standardized Cities (Lincoln Institute/International Monetary Fund, <http://www.imf.org/external/datamapper/v4/datasets>)
- Asia Pacific Energy Portal (United Nations Economic and Social Commission for Asia and the Pacific, <http://asiapacificenergy.org/>)
- GGKP Data Explorer (Green Growth Knowledge Platform, <http://www.greengrowthknowledge.org/data-explorer#/line?startYear=2000&endYear=2015>)
- ESPN 2020 Programme (European Commission, http://www.espon.eu/main/Menu_ToolsandMaps/)
- Urban Data Platform (European Commission, <http://urban.jrc.ec.europa.eu/>)
- Carbon Disclosure Project (Carbon Disclosure Project, <https://data.cdp.net/>)
- carbonn Climate Registry (ICLEI, <http://carbonn.org/data/>)
- World Council on City Data (World Council on City Data, <http://open.dataforcities.org/>)
- WorldPop (Flowminder, http://www.worldpop.org.uk/data/get_data)
- AidData (AidData, <http://aiddata.org/dashboard>)
- World Resources Institute (World Resources Institute, <http://www.wri.org/resources>)
- International Infrastructure Support System (Sustainable Infrastructure Foundation, <https://www.public-sif-iiss.org>)
- HealthData.gov (United States Government, <https://www.healthdata.gov/>)
- Land Information New Zealand (New Zealand Government, <https://data.linz.govt.nz/>)
- NYC OpenData (New York City Government, <https://data.cityofnewyork.us/browse>)
- Google Earth Engine (Google, <https://earthengine.google.com/datasets/>)

How do **OTHERS** currently collect, manage, and utilize data?

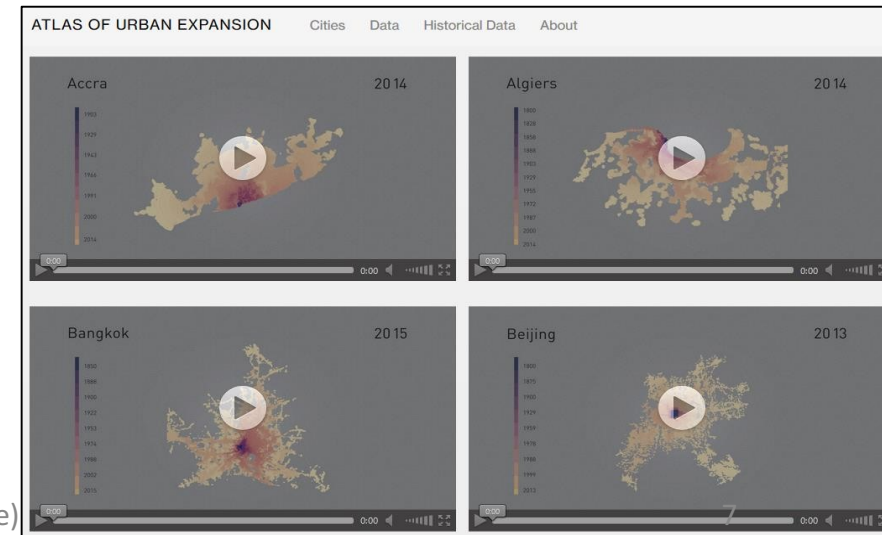
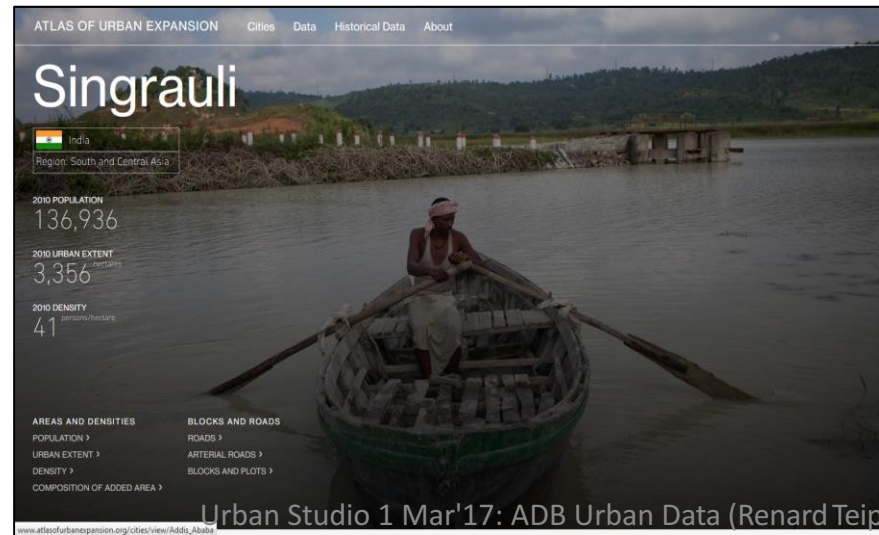
Atlas of Urban Expansion

<http://www.atlasofurbanexpansion.org/>

Data based on individual city assessments in the Monitoring Global Urban Expansion Program



1 portal based on Socrata Open Data API, with 8 categories and 9 viewing types (data lens pages, datasets, charts, maps, calendars, filtered views, external datasets, files and documents, and forms)



Lincoln Institute/New York University Open Data Portal

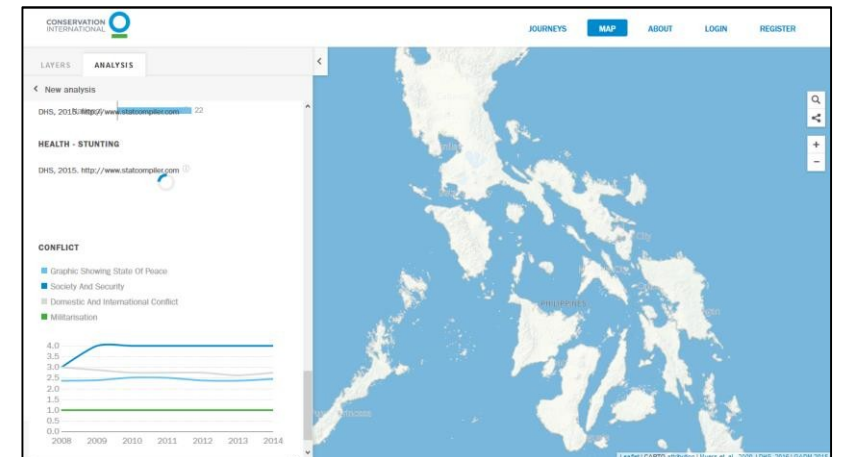
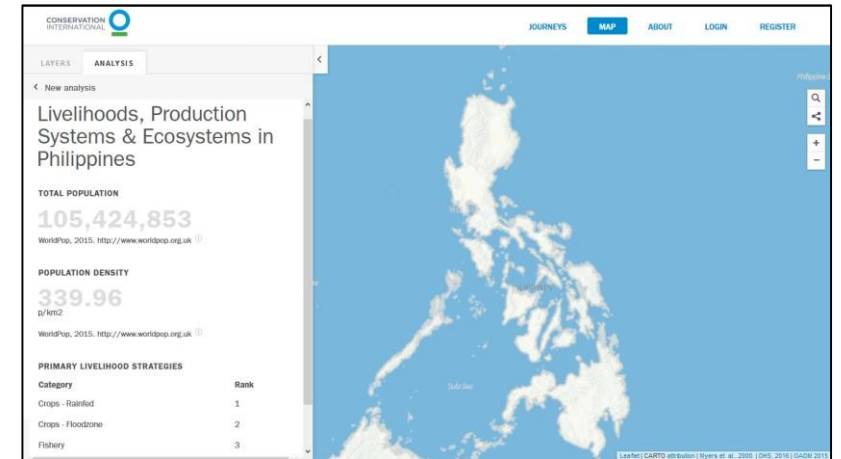
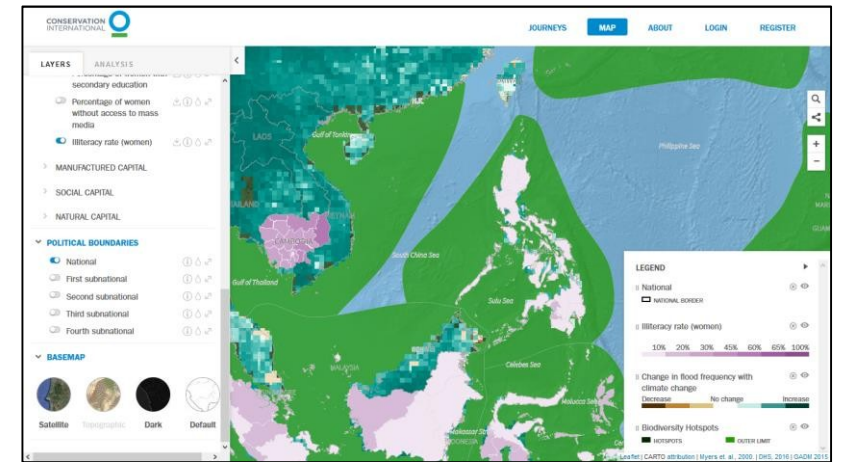
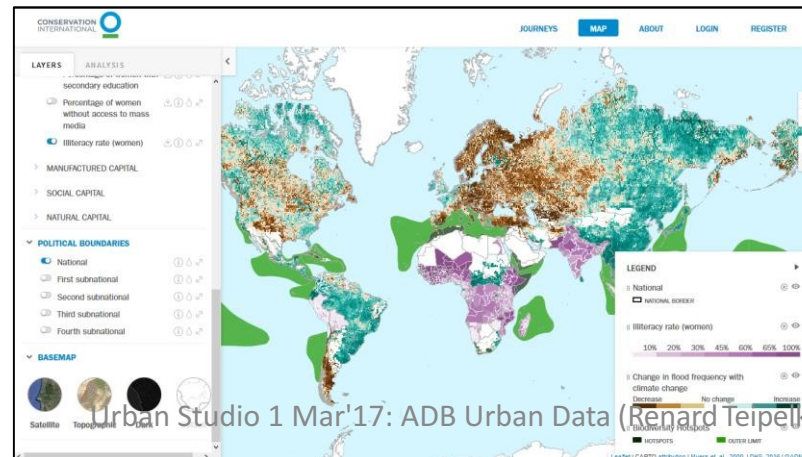
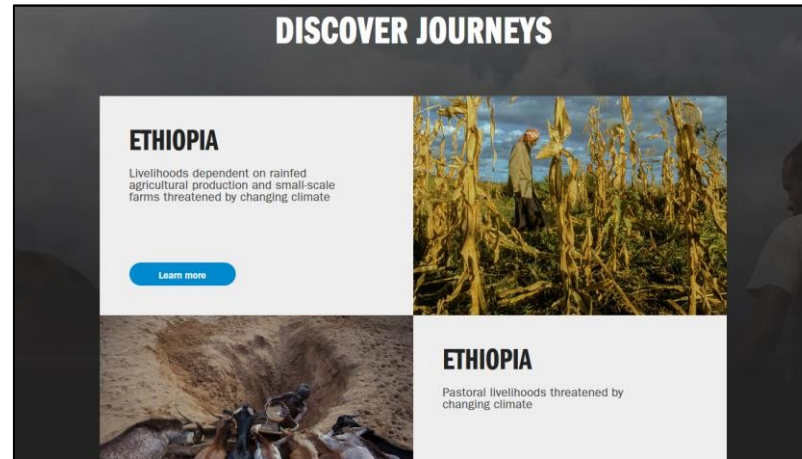
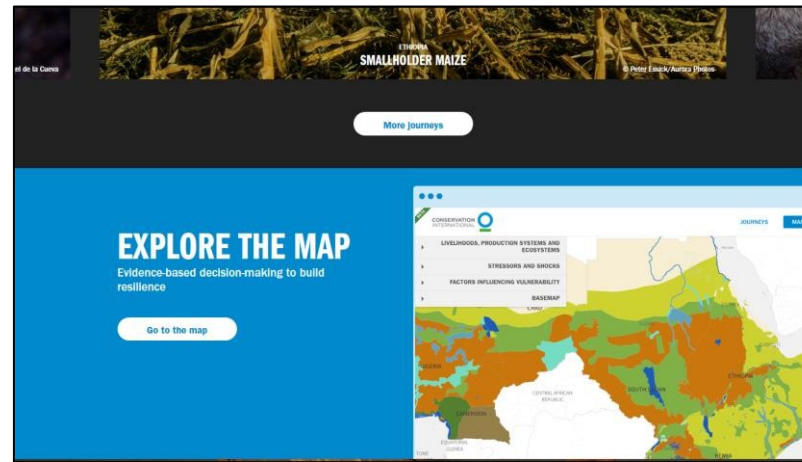
Resilience Atlas

<https://www.resilienceatlas.org/>

Data sourced from over 60 other datasets

Database for resilience stories (country journeys) and maps, with visualization of key stressors and shocks in Sahel, Horn of Africa, South Asia, and Southeast Asia in relation to different types of wealth and assets (e.g. human capital)

Conservation International Resilience Atlas database



How Cities Are Governed

<https://urbangovernance.net/en/>

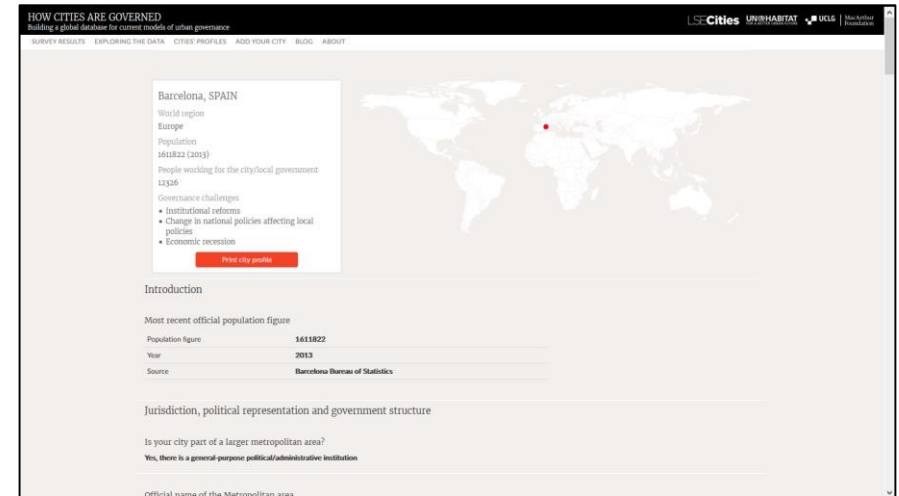
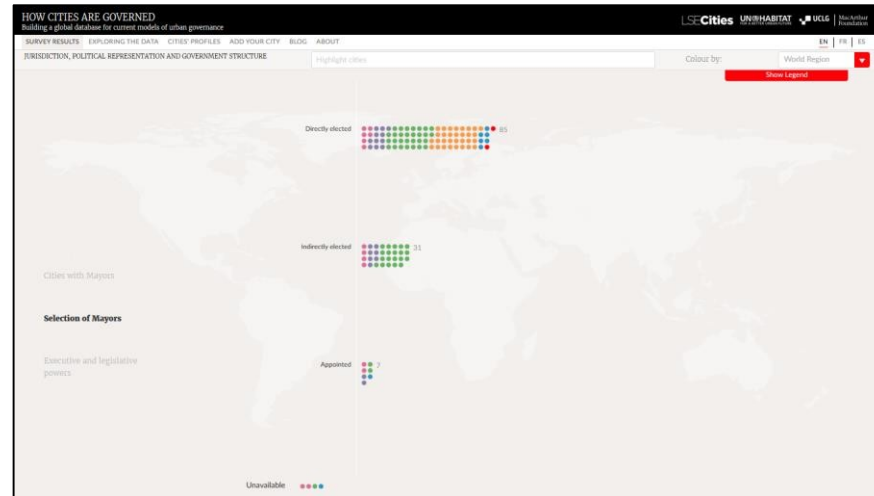
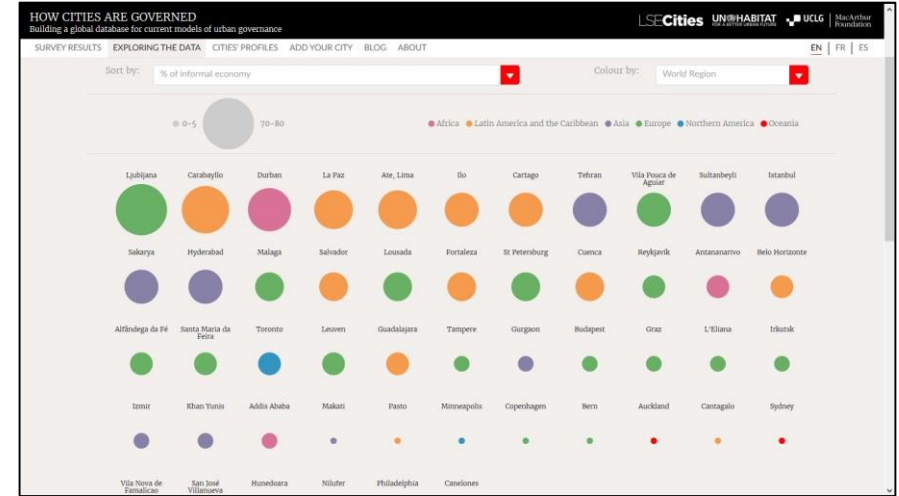
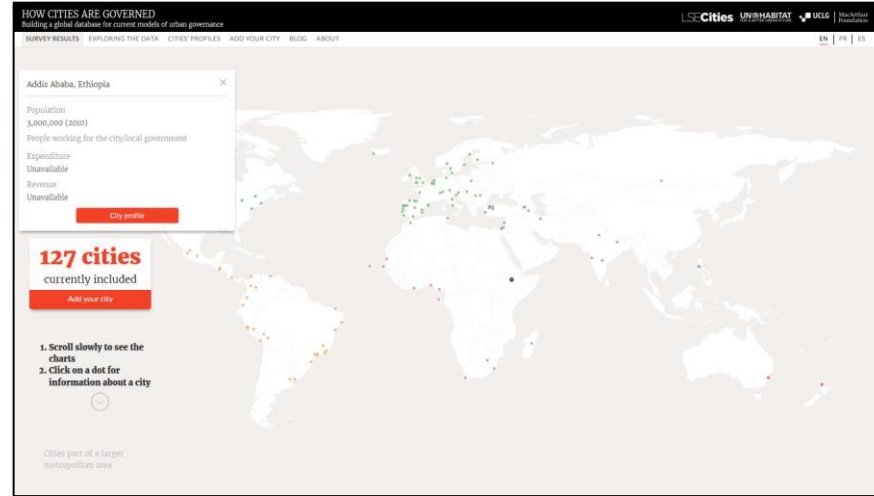
Survey-based collection of information on cities by confirmed city representatives



Survey results map with charts, data exploration site, and city profiles on 127 cities



LSE urban governance database



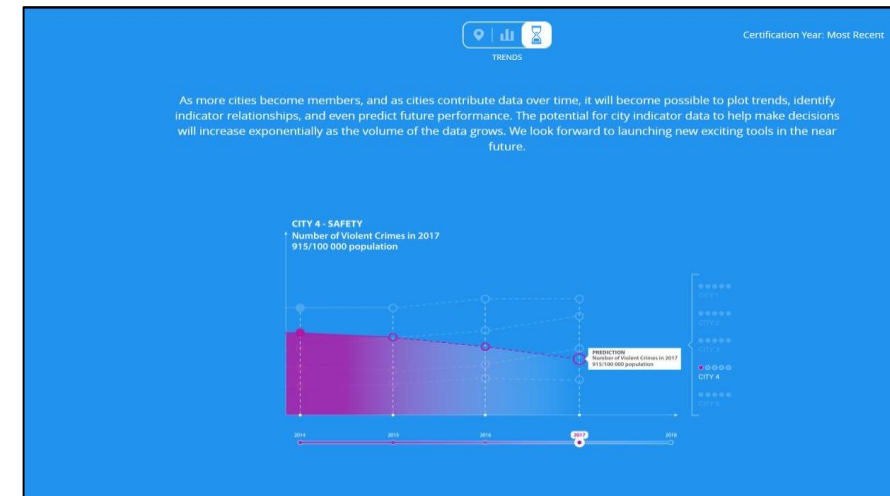
World Council on City Data

<http://open.dataforcities.org/>

Self-reported and third-party verified data from cities based on ISO 37120:2014

1 portal with numerous datasets, organized in 17 themes, 100 indicators, and 3 visualizations (maps, graphs, trends)

WCCD Data Portal



Lessons Learned toward Improved ADB Urban Data

How do **WE** currently collect, manage, and utilize data?

How do **OTHERS** currently collect, manage, and utilize data?

How could **WE** improve our data collection, management, and utilization?

Data Collection

Measuring



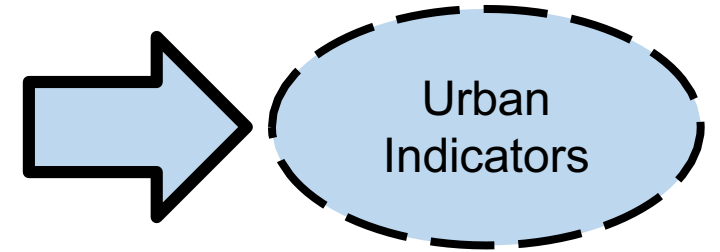
Collecting



Checking/Verifying

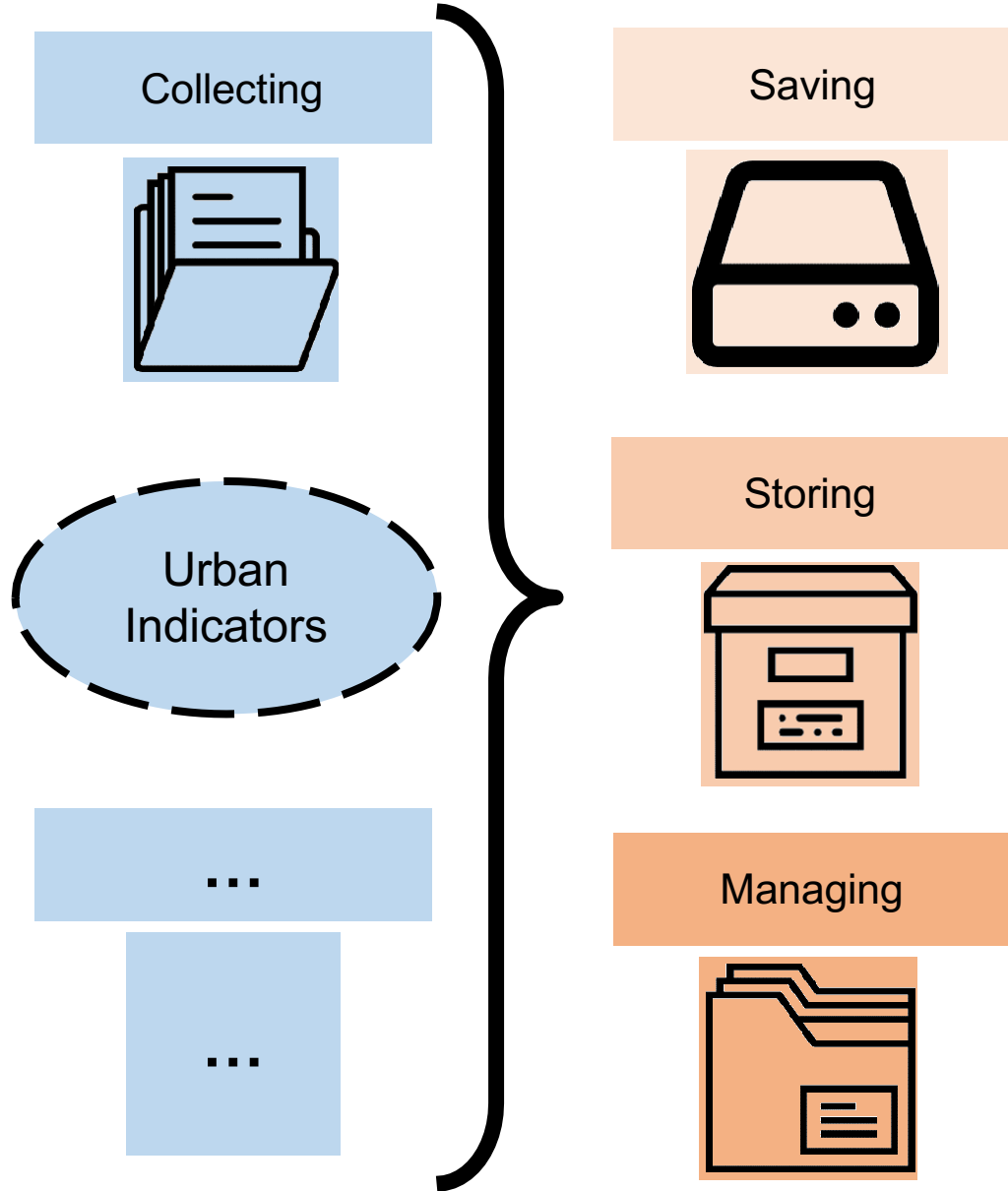


- Key problem: **data collection and management**
- **Client-relevant data:** high quality (accuracy, consistency, timeliness – regular updates!) and easy accessibility (open, simple, transparent)
- **Consistency** problem within one entity (e.g. ADB), between partners (e.g. ADB and UNESCAP), and across different government levels (e.g. national and sub-national)
- **Verification (validation) of data** important additional task
- **Terms of Reference** much potential (mandatory geo-coding of data, data delivery formats, etc.)

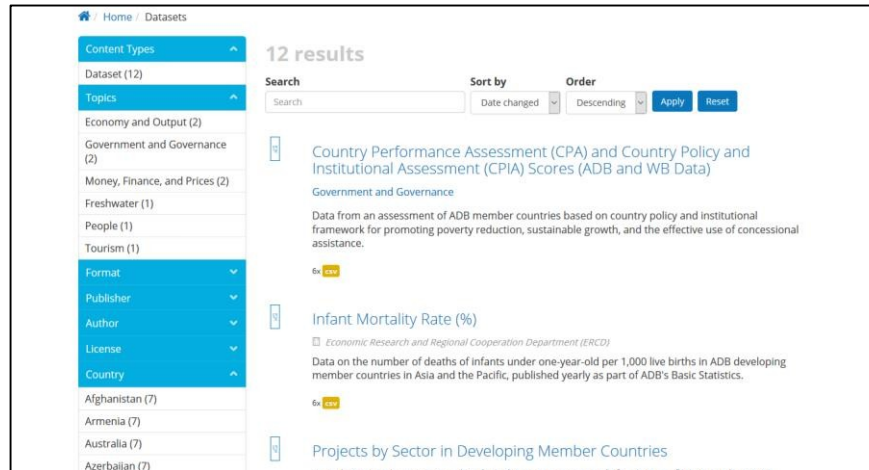
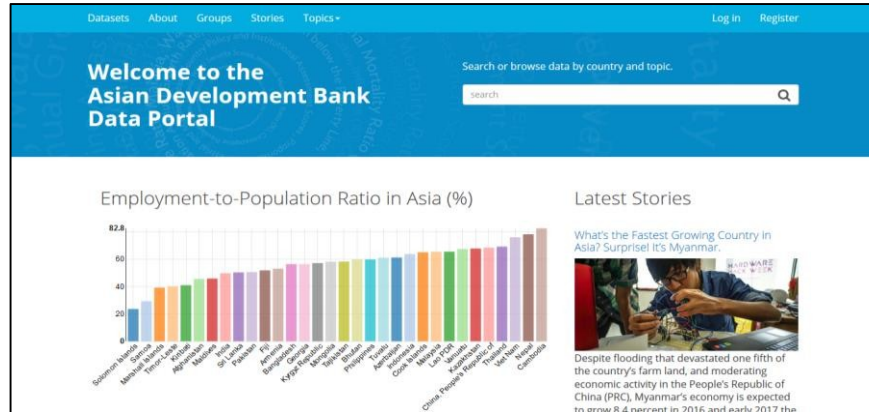


How could WE improve our data collection, management, and utilization?

From Data Collection to Data Management

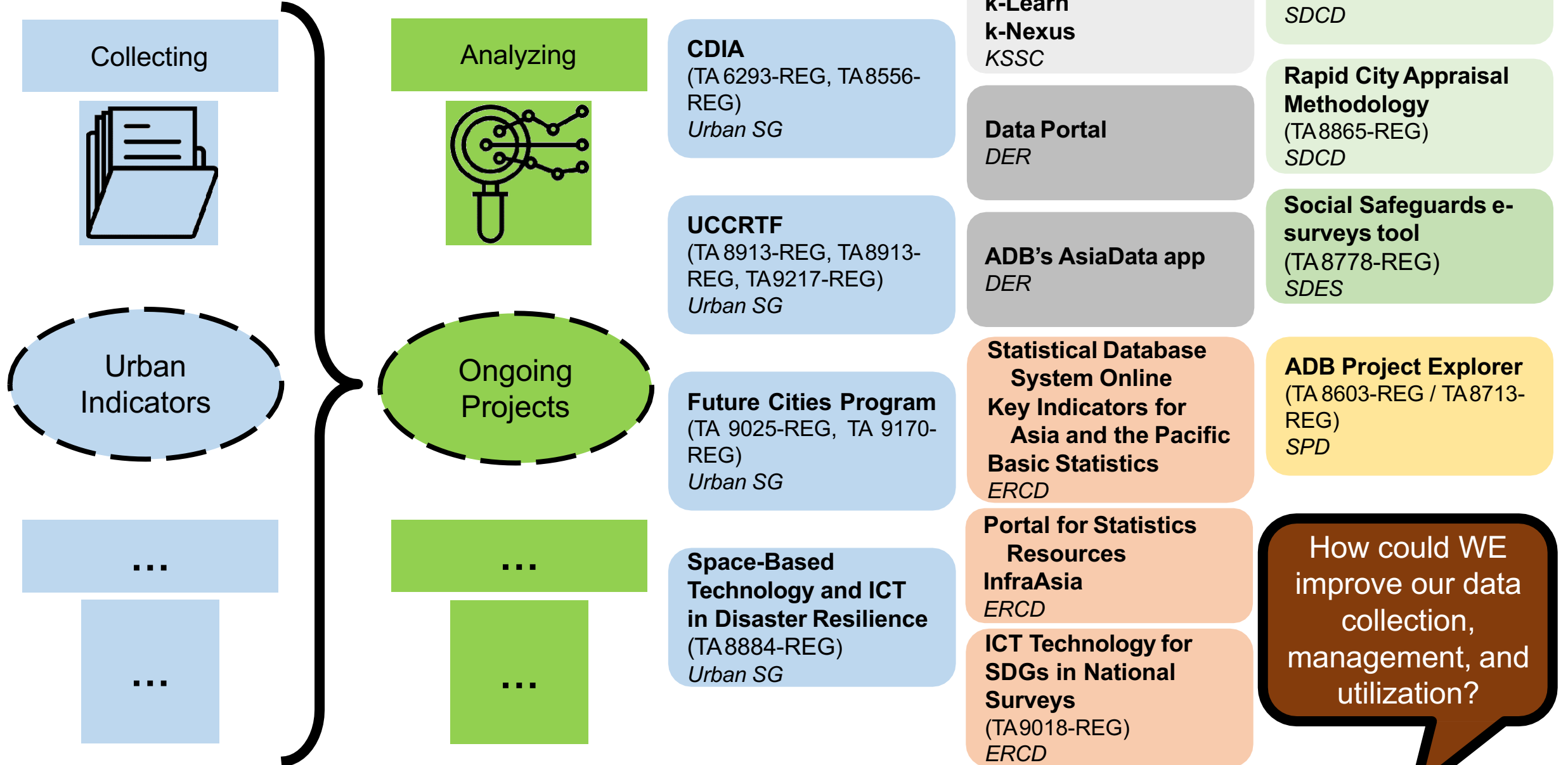


- **Avoid duplication**, utilize existing data, standards, and tools
- **Licensing** (e.g. who owns the data?) and other **data governance** aspects (e.g. who approves data publishing? disputed borders?) not well understood, consciously addressed, or easily resolved

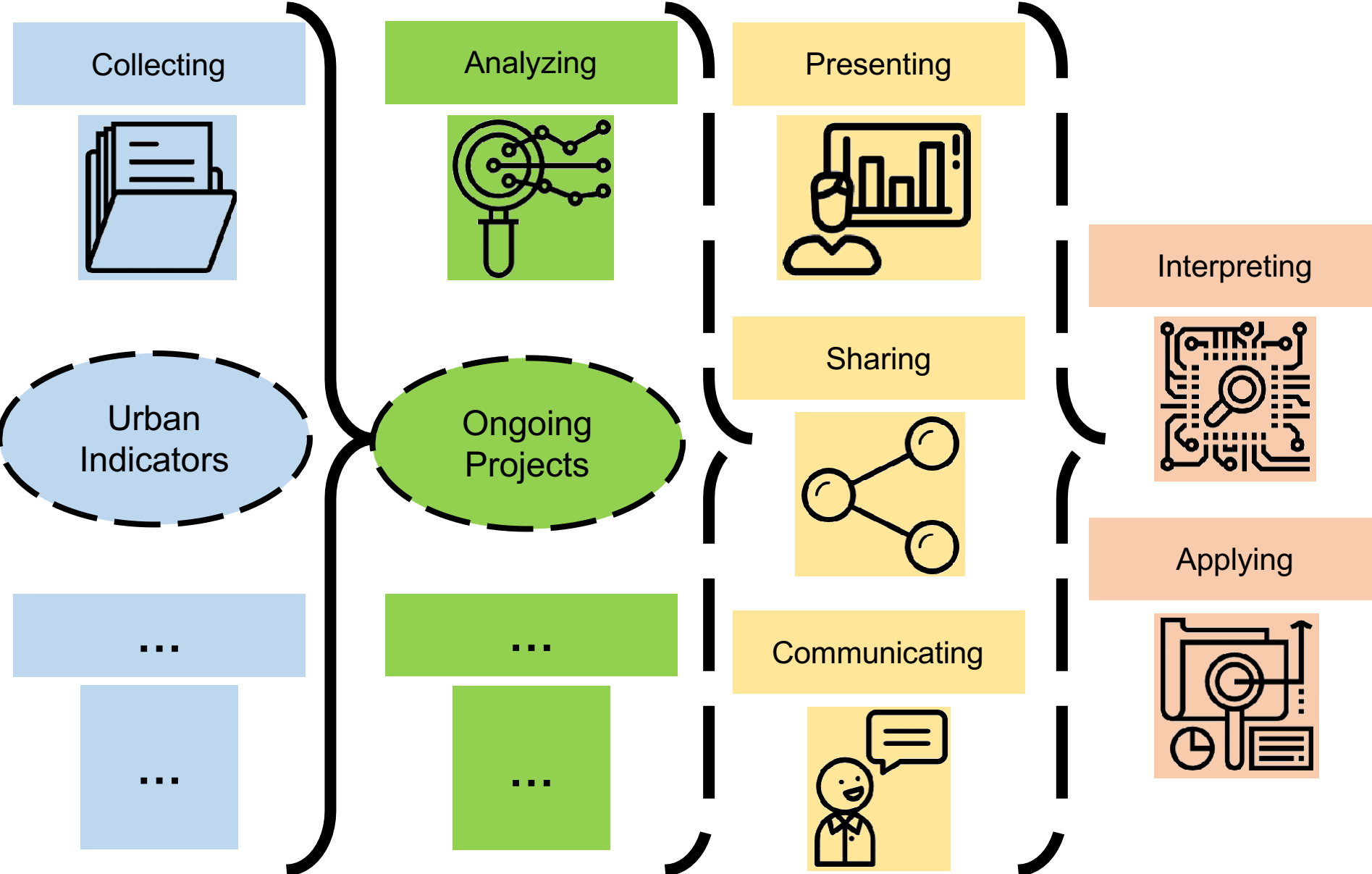


How could WE improve our data collection, management, and utilization?

Data Utilization: Ongoing Projects



Data Utilization: Work in Progress



- Clarifying strategic, institutional, and resource aspects to ensure **sustainability** of any data effort (risk of recurring pilots)
- Failed attempts often **too big too fast**
- **Actual utilization of established data platforms unclear and questionable**
- Knowing What-Is (**status quo**) ≠ Knowing What-Should (**future needs**) – **additional step of data interpretation**

How could WE improve our data collection, management, and utilization?

Your Viewpoints

Common Sources

Card 1: Please note the three most common sources from which you get your project-related basic urban data?

Regular Challenges

Card 2: Please note two challenges you regularly encounter in finding or using urban data in your projects?

Suggestions

Card 3: Please note one suggestion that you have for improved ADB urban data collection, management, and/or utilization?

How do **WE** currently collect, manage, and utilize data?

How do **OTHERS** currently collect, manage, and utilize data?

How could **WE** improve our data collection, management, and utilization?