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

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_RPCH@WEO/OEM DC/ADVEC/WEOWORLD)


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/)


Atlas of Economic Complexity (Harvard University, http://atlas.cid.harvard.edu/)
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/)

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

Fragile Cities (Igarape Institute, http://fragilecities.igarape.org.br)


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)

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/)
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

• 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.)
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

Collecting

Urban Indicators

... ...

Ongoing Projects

Analyzing

CDIA
(TA 6293-REG, TA8556-REG)
Urban SG

UCCRTF
(TA 8913-REG, TA 8913-REG, TA 9217-REG)
Urban SG

Future Cities Program
(TA 9025-REG, TA 9170-REG)
Urban SG

Space-Based Technology and ICT in Disaster Resilience
(TA 8884-REG)
Urban SG

Knowledge Portal
k-Learn
k-Nexus
KSSC

Data Portal
DER

ADB’s AsiaData app
DER

Statistical Database System Online
Key Indicators for Asia and the Pacific
Basic Statistics
ERCD

Portal for Statistics Resources
InfraAsia
ERCD

ICT Technology for SDGs in National Surveys
(TA 9018-REG)
ERCD

Acclimatise AWARE tool
SDCD

Rapid City Appraisal Methodology
(TA 8865-REG)
SDCD

Social Safeguards e-surveys tool
(TA 8778-REG)
SDES

ADB Project Explorer
(TA 8603-REG / TA 8713-REG)
SPD

How could WE improve our data collection, management, and utilization?
Data Utilization: Work in Progress

Collecting

Analyzing

Presenting

Interpreting

Sharing

Applying

Communicating

Urban Indicators

Ongoing Projects

• 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?