

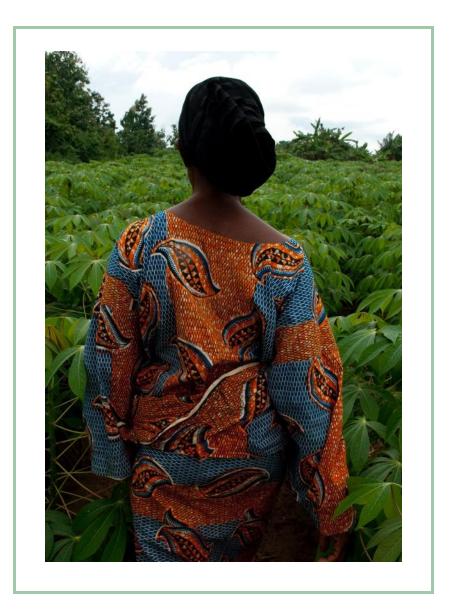
Harnessing the Potential of Innovative Data Sources in SP Program Implementation Potential, challenges and examples





Session Overview

- 01 Motivation
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- 04 Insights & outlook
- 05 Discussion





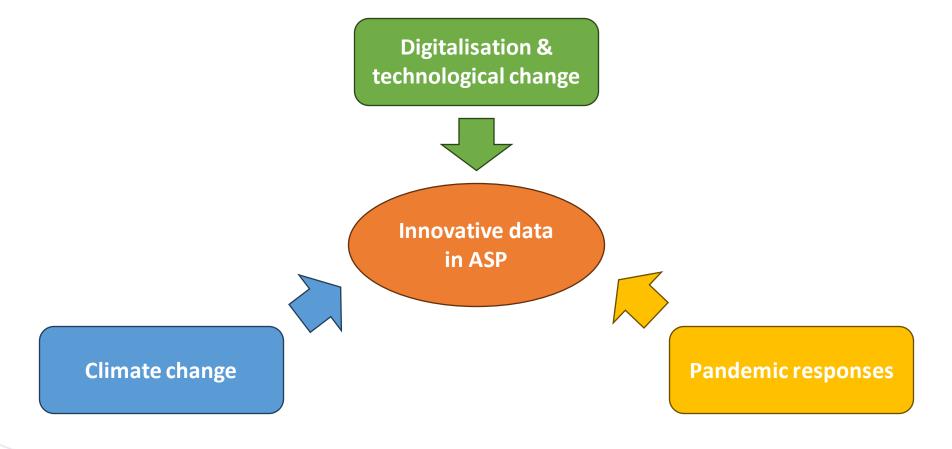
Motivation





Motivation

Trends towards use of innovation data sources







Five major data sources



Satellite images

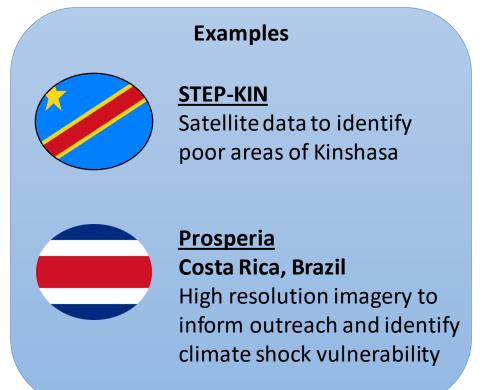
Satellites record the entire inhabited planet at different spectral bands and resolutions, ranging from free, publicly available, infrequent low-resolution images to high resolution, multi-band, high frequency images

Key opportunities

- Geographic targeting
- Adaptive targeting: damage detection
- Monitoring & evaluation

Major challenges

- Implementation capacity computation & human resources
- Cost of high-resolution imagery



Phone meta-data

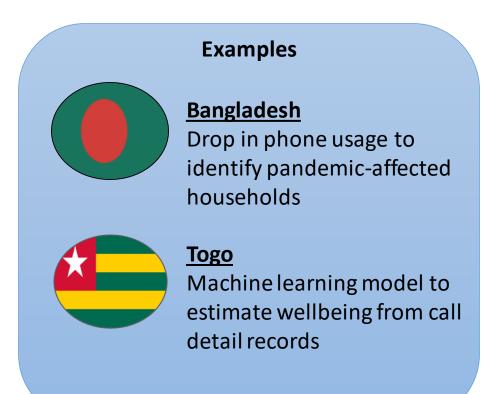
Logs of phone usage called Call Detail Records, such as top-ups and messages, but not the contents of calls and texts

Key opportunities

- Outreach and intake via text menus and interactive voice
- Eligibility determination based on location and phone usage
- Cash transfer via mobile money
- Monitoring & evaluation of withdrawals, perhaps expenditure

Major challenges

- Data access from private sector mobile network operators
- Privacy protection risks from personal mobility & finance data
- Digital exclusion of those without regular phone access



Sensors

Satellite-based sensing of non-visual information and local sensors such as weather stations and water gauges

Key opportunities

- Real-time shock monitoring
- Shock prediction for anticipatory action

Major challenges

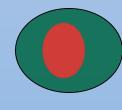
- Data access
- Data accuracy and representativeness
- Technical capacity

Examples



<u>Niger</u>

Remote sensing of drought conditions to trigger cash transfers



Bangladesh

Drop in phone usage to identify pandemic-affected households



Digital finance

Transactions and asset data from sources including banks, asset registers, and payment providers

Key opportunities

- Means testing & welfare proxies
- Dynamic re-assessment
- Monitoring & evaluation

Major challenges

- Digital exclusion
- Privacy and surveillance
- Algorithmic fairness



Examples

Bangladesh

Ownership of government securities for affluence testing



Colombia

Private-sector credit score as an input to proxy means testing

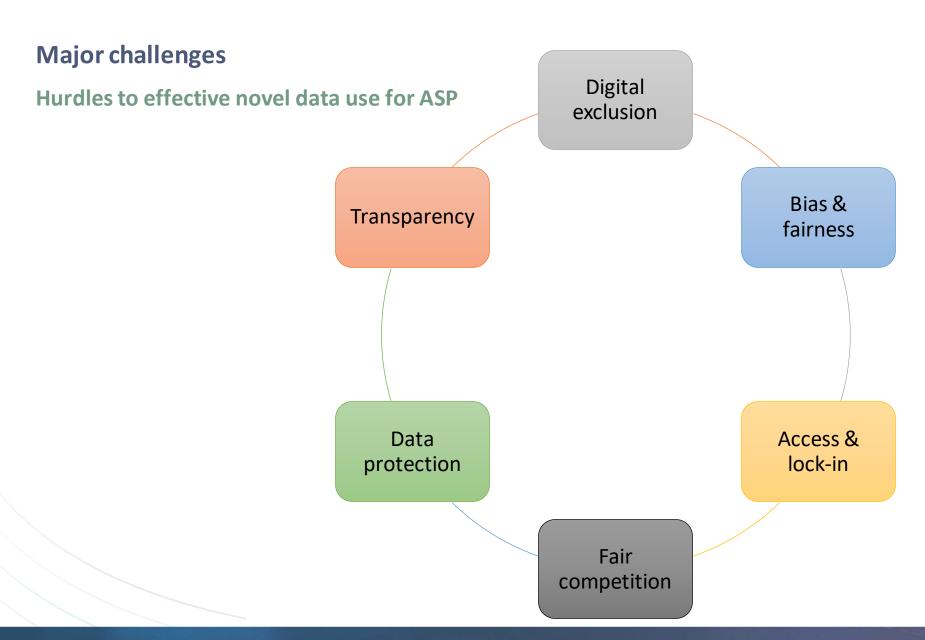






Challenges





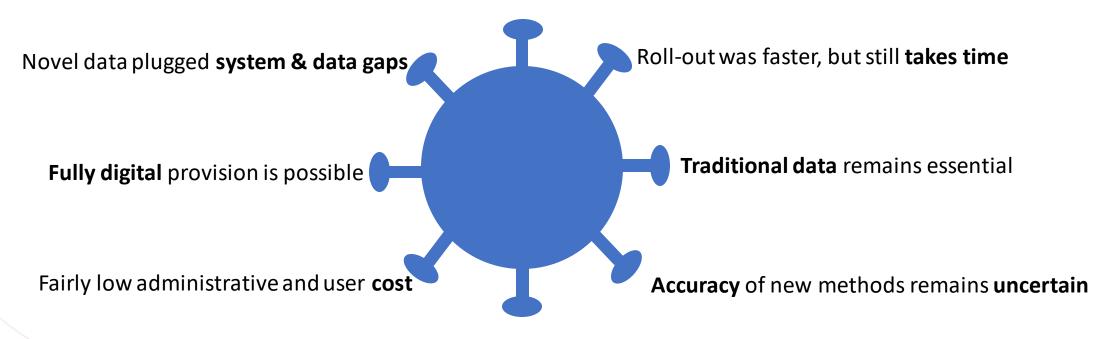


Insights & outlook



Pandemic insights

Some lessons from COVID-19 social protection responses

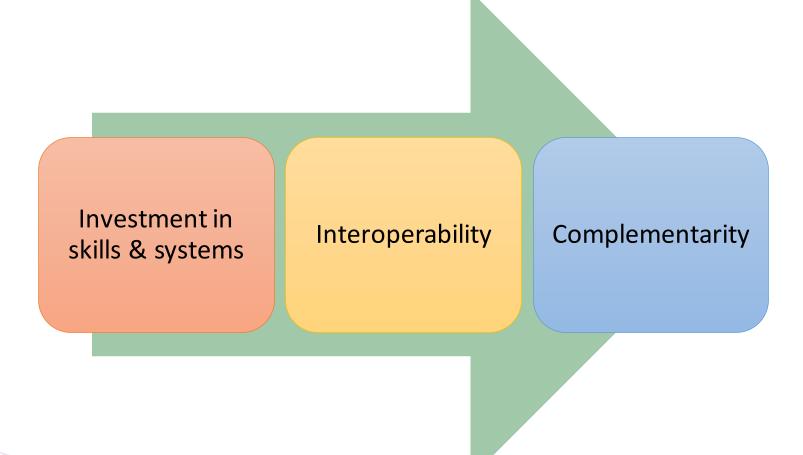


Digital exclusion limited access



Outlook

Future perspectives for novel data in adaptive social protection





Have your say

Questions?

Comments!

Feedback ©







THANK YOU

