

## Objective

The primary objective of the Working Group is to ensure from a statistical and geographic location perspective that the key principle of the 2030 Agenda, to leave no one behind, is reflected in the Global Indicator Framework.

## Terms of Reference

1. Provide expertise and advice to the IAEG-SDGs and the larger statistical community as to how geospatial information, Earth observations and other new data sources can reliably and consistently contribute to the indicators. (WP 2018-2019)
2. Review options and provide guidance to IAEG-SDGs, as to the role of NSOs in considering geospatial information and earth observations, as well as other Big Data, as a means to contribute to and validate datasets as part of official statistics for SDG indicators. (WP 2018-2019)
3. Review the agreed indicators and metadata through a 'geographic location' lens and identify existing geospatial data gaps, methodological and measurements issues.



## Terms of Reference






4. Consider how geospatial information can contribute to the indicators and metadata: 1) as a direct indicator in itself; 2) to support and augment statistical data; 3) to improve the production process of statistical data; 4) to validate national statistical data inputs; 5) to communicate and visualize the geographic dimensions and context of the indicators where appropriate; and 6) to provide granularity and disaggregation of the indicators where appropriate.
5. Provide national and regional level experiences and best practices in geospatial data production to measure leaving no one behind. (WP 2018-2019)
6. Propose strategies for undertaking methodological work on specific areas for improving disaggregation by geographic location concepts for national and sub-national reporting, including to the HLG and to the Statistical Commission. (WP 2018-2019)



Voluntary national assessment of Member's readiness to apply geospatial information in the production of indicators

A voluntary review of readiness to utilize global and national geospatial data and satellite earth observations data sets in the production of indicators (*based on the shortlist of 24 indicators*)

**SUB-LIST A:  
GEOSPATIAL DATA IS NEEDED**

Indicator								
	Global	National	Global	National	National	Global	National	National
2.4.1	●	●	●	●	●	●	●	●
6.3.2	●	●	●	●	●	●	●	●
6.5.2	●		●	●	●	●	●	○
6.6.1	●	●	●	●	●	●	○	●
9.1.1	●	●			●	●	○	●
9.c.1	●		●	●	●	●		●
11.2.1	●	●	●	●	●	●	○	●
11.3.1	●		●	●	●	●	●	●
11.7.1	●	●			●	●	●	●
14.2.1	●					●	●	●
14.5.1	●		●	●	●	●	●	●
15.1.1	●		●	●	●	●	●	○
15.1.2	●	?	●	●		●	●	●
15.3.1	●		●	●	●	●	●	●
15.4.1	●	?	●	●	●	●	●	○

## Agenda Item #2 – Voluntary National Assessment

Plan for action:

## Agenda Item #2 – Voluntary National Assessment

### Plan for action:

- 1) Request all Member States represented in the WG to undertake this voluntary assessment
- 2) Co-ordinator of this activity (Mexico) will send out an excel sheet/reminder in early January 2019
- 3) Responses requested by mid-March 2019
- 4) Provide an update to IAEG-SGs at their spring meeting

### When:

Q1 2019

### Who:

Mexico

## Questionnaire layout

The questionnaire was developed to:

- ✓ provide information for the policy paper
- ✓ identify and understand the important issues concerning data integration
- ✓ propose measures to improve the situation
- ✓ make the NSI's and NMCA's aware/conscious on the national status for cooperation, and potential improvements

Addressees:  
180 UN-GGIM: Europe and  
UNECE contacts in 55  
countries

Deadline: 31 August 2018

**QUESTIONNAIRE SUPPORTING THE POLICY PAPER**  
of the UN-GGIM: Europe Working Group on Data Integration

*Please fill in all the questions. If it is not relevant for your institution, please click "Not applicable".*

**1 GOVERNANCE AND POLICY**

1.1 Are statistics and geospatial information under the same ministry?

1.1.1 How often do you have consultations with your ministry on data integration issues at the highest level?  
 Once a month  Every 2 - 3 months  Every 6 months  Once a year  Less than once a year  According to demand  Not applicable

1.2 Do you have an agreement on cooperation between the NSI and NMCA in your country?

Legislation  Memorandum of Understanding  other

1.2.1 What is included in the agreement? What are the important topics?

1.2.2 How is knowledge exchange organized between the two agencies?  
 E-Mail  Telephone  Face-to-Face Meetings  Web conferences  other

1.2.3 How often do you exchange ideas with colleagues from the NSI/NMCA on data integration topics?  
 Once a week  Every 2 - 3 weeks  Once a month  Every 2 - 3 months  Less than 3 months  According to demand



## Agenda Item #2 – Activity on Institutional Cooperation

Plan for action:



## Agenda Item #2 – Activity on Institutional Cooperation

### Plan for action:

- 1) Look forward to UN-GGIM: Europe's report
- 2) Review and consider (at future online meetings) feasibility of extending this activity to other regions

### When:

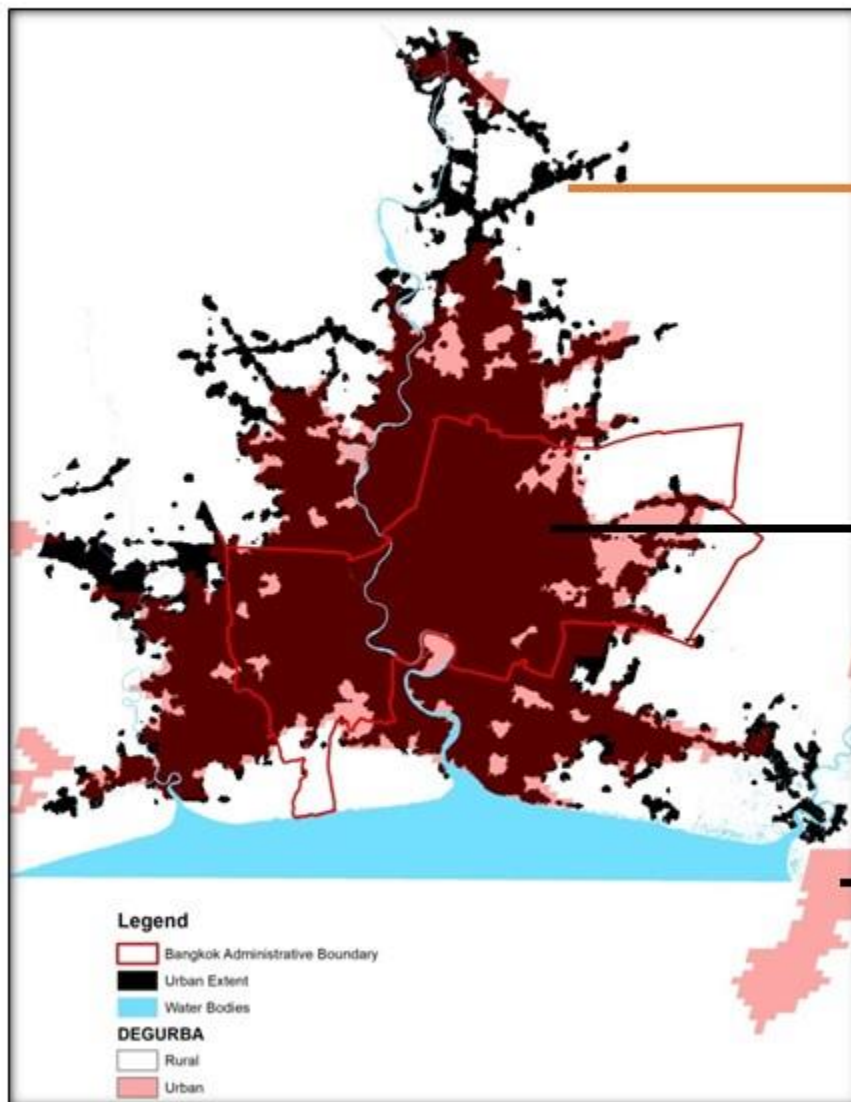
Q1 & Q2

### Who:

Co-Chairs



# Do the two methods produce similar boundaries?



Areas where urban extent boundaries extend beyond those of DEGURBA

Areas where the two functional boundaries overlap

Areas where DEGURBA area is larger than urban extent coverage

## Agenda Item #2 – Global Definition of Settlement

Plan for action:

## Agenda Item #2 – Global Definition of Settlement

### Plan for action:

- 1) Expert consultation(s) planned in 2019 in the lead up to presenting an internationally agreed global definition to the Statistical Commission in 2020
- 2) Continue to track the progress of the consultation and if invited, ready to participate in the expert consultation(s)

### When:

2019

### Who:

Co-Chairs and Secretariat

## Task Stream #1

addresses disaggregation  
(co-led by Chile and China)

Execution plan seeks to

- Identify existing
- Compile good practices
- Document methods

Proposed deliverables -

- A compilation of good practices
- Aggregation of good practices
- Technical guidance
- Location

Duration –

- 2018/2019

## Questions

Question 1: How could an active task force be formed for Task Stream I?

Question 2: What would you contribute to the booklet and the technical guidelines?

Question 3: How should the call for good practices be sent out?

Question 4: How should we invite the invited international experts, through their affiliated international society (such ISPRS, ICA,...)?

Question 5: How should the drafted booklet and technical guideline be reviewed ?

Question 6: What other resources should we mobilize to get the work done ?

## Task Stream #1

addresses disaggregation  
(co-led by Chile and China)

### Challenges around disaggregation by geographic location

Execution plan seeks to -

- Identify existing e
- Compile good pra
- Document metho

Proposed deliverables -

- A compilation of
- aggregation of ge
- Technical guidance
- location

Duration –

- 2018/2019

**Different paces of change in spatial vs statistical data resolutions**

Sometimes validation is required for data acquired from EO and GI methods, which is resource and time consuming

The challenge of aggregating disaggregated city-level data to national level

Inconsistency in Geographic information and census data units makes estimations difficult



Validating data acquired from EO and GIS is resource and time consuming



## Task Stream #1

addresses disaggregation of indicators  
(co-led by Chile and Costa Rica)

Execution plan seeks:

- Identify existing data sources
- Compile good practices
- Document methodologies

Proposed deliverables:

- A compilation of data sources
- Aggregation of data
- Technical guidance on data location

Duration –

- 2018/2019

## What is Needed

Facilitation of more engagement and exchange between EO and GI community with countries

Best practices transfer – methodologies are out, successful pilots have been done .... need to demonstrate what works

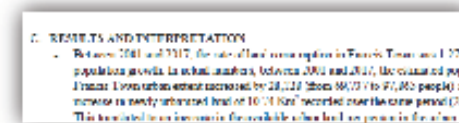
Guidance and direction around alternatives to validating data generated through GI and EO – crowdsourcing? Ground truthing?

Support in indicator values interpretation, linkage to policies and local decision making

- what actions should a country / city take if a value is below/above a certain threshold?

Encourage and support development of relevant tools and their sharing

- Setting of standards - content presentation, length of documents
- Alternatives to platforms / applications – commercial vs open source



QGIS



## Agenda Item #3 – Task Stream #1

Plan for action:



## Agenda Item #3 – Task Stream #1

### Plan for action:

- 1) Co-chairs to brief and provide feedback to Chen Jun and Macarena including expressing and discussing the WG's concern on the technical guidelines (audience, purpose, appropriateness)  
(Secretariat to organized an online meeting in the next 2 weeks)
- 2) Co-Leads, Co-Chairs and Secretariat will jointly address the six questions posed by the Task Stream #1 co-Leads (December 2018/January 2019)
- 3) Co-Leads to work to plan



## Task Stream #2

addresses the availability  
production of indicators (

Execution plan seeks to -

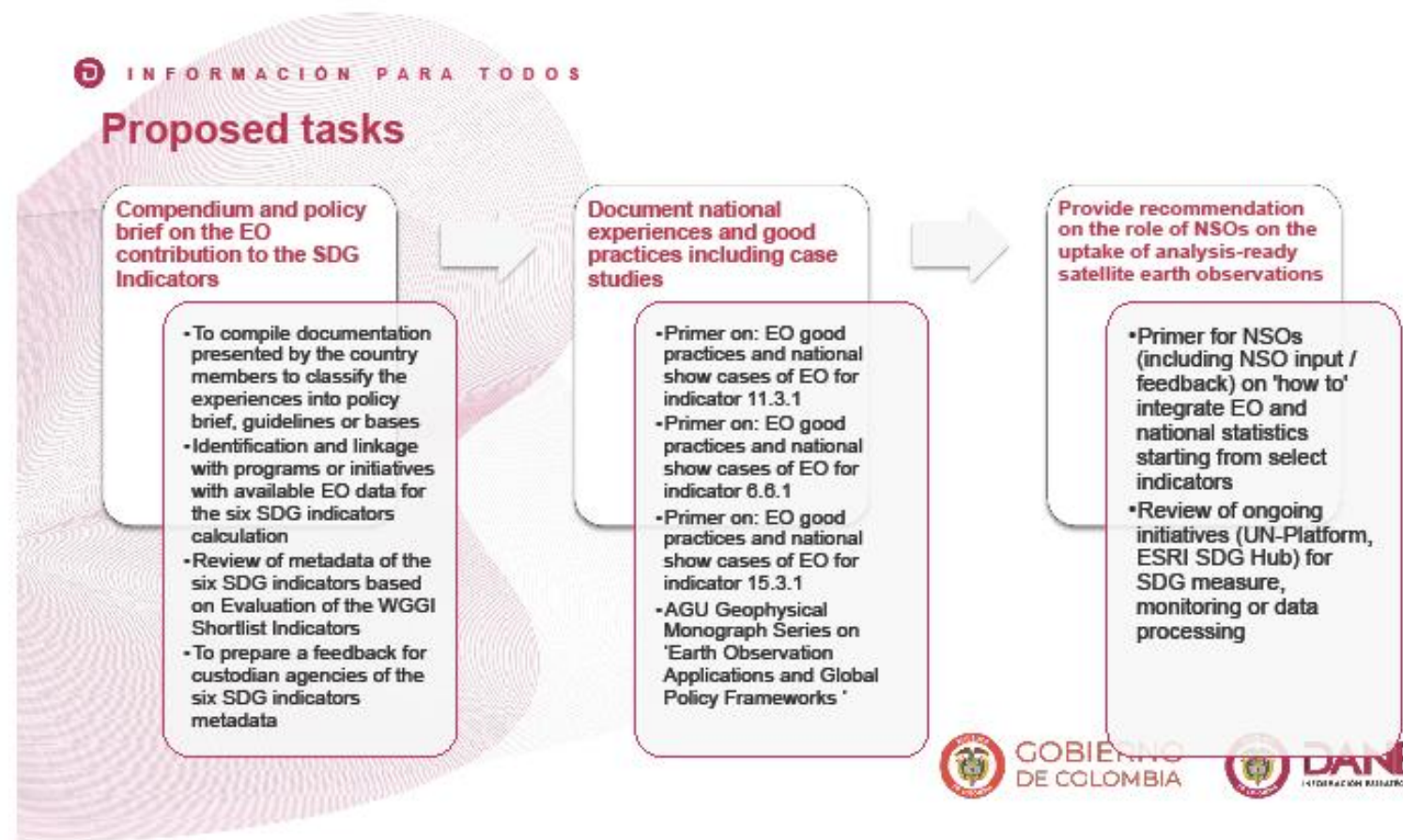
- Document natio
- Develop expert data for product
- Make recomme processes

Proposed deliverables -

- A compilation of
- Technical guidan observation data

Duration –

- 2018/2019



## Task Stream #2

addresses the availability  
production of indicators

Execution plan seeks to

- Document national
- Develop expertise
- Make recommendations

Proposed deliverables

- A compilation
- Technical guidance

Duration –

- 2018/2019

## Why we need global data products

**The people who need access to environmental information do not have the capacity to produce or use geospatial data**

*Capacity at any juncture may be a stock, but over time it reflects the priorities of those in power, giving rise to “pockets of effectiveness” and explaining underinvestment in agencies that can challenge the status quo (e.g., statistical offices in Africa). Bulman and Lopez-Calva, Lessons from the 2017 World development report on Governance and the Law, Brookings Institute*

**Asymmetries in data generation and data technology capacity across countries and across Ministries within countries**

**A recent UNDP study that more than 70% of countries used less than 4 maps in their national action planning processes on biodiversity**

Aim: to create  
on the best av

MENU **nature**  
International journal of science

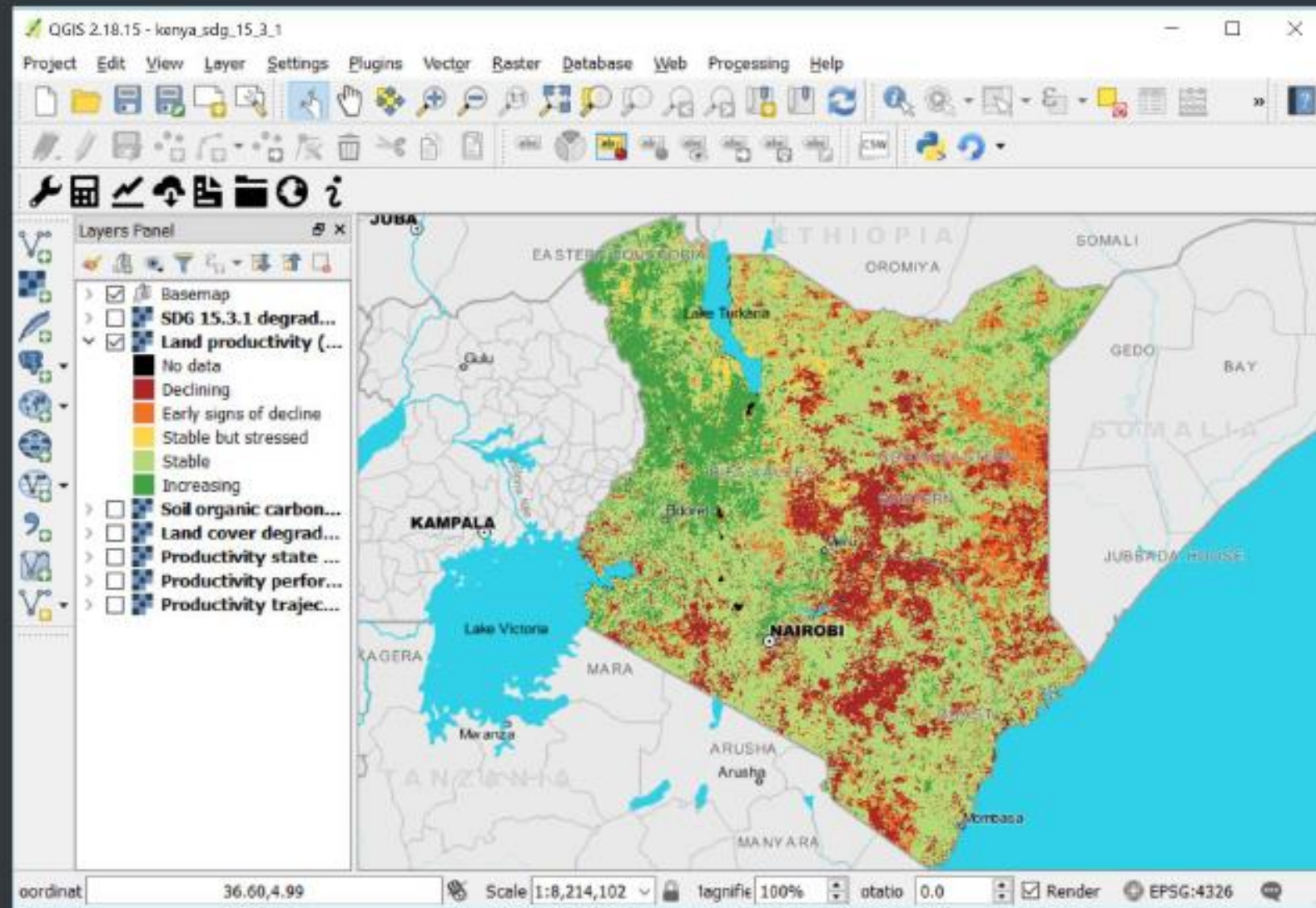
Letter | Published: 07 Decem

High-resolu  
water and it

Jean-François Pekel, And

Nature 540, 418–422 (15 Dec

# TRENDS.EARTH - Changes in land productivity



## Task Stream

addresses the a  
production of in

Execution plan s

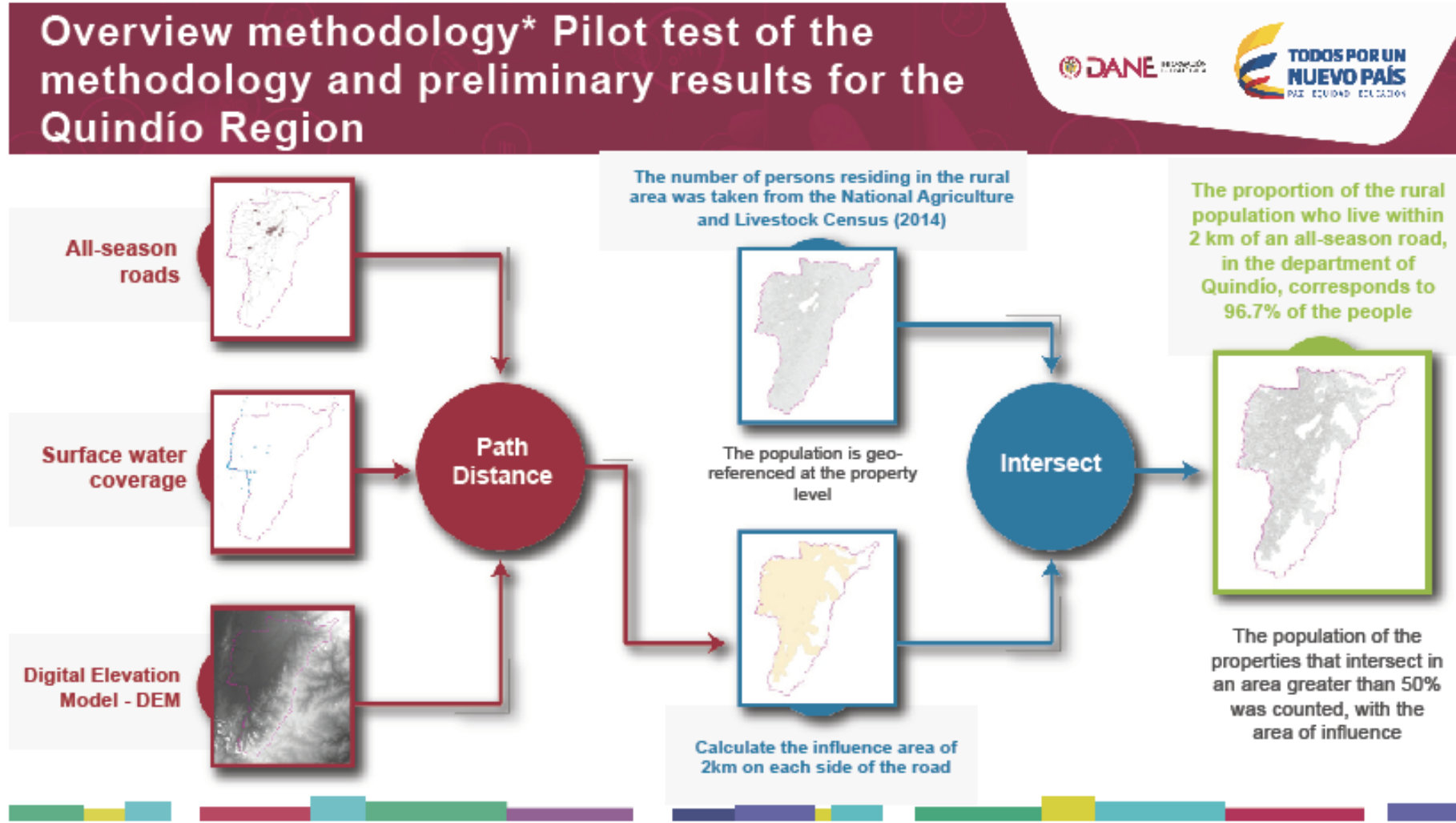
- Docum
- Develo
- data fo
- Make
- process

Proposed delive

- A comp
- Technic
- observa

Duration –

- 2018/2



## Agenda Item #4 – Task Stream #2

Plan for action:

## i) Develop expert advice and guidance to IAEG-SDGs and the larger statistical community

### Task: Review global metadata, engage with UN Custodians

- Assess EO4SDG Compendium and Indicator Fact Sheets, mainly for selected indicators, from a statistical point of view (January 2019)
- Provide country experiences to UN Custodians

### Deliverables

- Feedback to EO4SDG Project, improved Fact Sheets
- Summarize the task in a report to the IAEG-SDG



## ii) Document national experiences and good practices including case studies

### Task: Production of indicators, testing global data and methods

- Use available global data and tools to produce 6.6.1, 11.3.1 and 15.3.1
- Investigate and test 6.3.2 and 9.1.1

### Deliverables

- Country reports on experiences from testing global data and methods
- Summarize the findings in a report to the IAEG-SDG





### iii) Provide recommendation on the role of NSOs on the uptake of production-ready satellite earth observations

#### Task: Investigate Data Hubs, Data Cubes, Platforms, Capacity issues

- Leverage existing platforms and initiatives (avoid duplication)
- Investigate other relevant solutions for countries
- Document how countries can build capacity through existing initiatives

#### Deliverables

- Summarize the findings in a report to the IAEG-SDG



## Membership

Rotation of members in the IAEG-SDGs

New members (following the rotation of members in IAEG-SDGs) in the Working Group anticipated in 2019

UN-GGIM Regional Entities may also wish to rotate their representatives in the Working Group

## Next face-to-face meeting

Suggestion:

## Desired Outcomes (5<sup>th</sup> December 2018)

- Incorporating outcomes from workshop in the Execution Plans for TS #1 and #2
- Agreed Executions Plans for Task Streams 1 and 2, finalized by ?? Dec
- (Report back to co-leads for TS #1)
- More countries willing to do assessments of the short list
- Follow-up with the co-chairs of the IAEG-SDG on the outcomes (co-chairs of WGGI)

