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### Needs from SDGs Tracking and Anslyisis

United Nation GA adopted the Global Indicator Framework (GIF) for the 2030 SDGs in its resolution A/RES/71/313 On 6th July 2017,

[from the preambular of the GIF]

Sustainable Development Goal indicators should be disaggregated, where relevant, by income, sex, age, race, ethnicity, migratory status, disability and geographic location, or other characteristics, in accordance with the Fundamental Principles of Official Statistics

[from the foreword of the SDGs Report 2017 by UN Secretary General]

the need for reliable, timely accessible and disaggregated data to measure progress, inform decision-making and ensure that everyone is counted



### My Experience in Deqing

# Populations data needs to be disaggregated into geographical space with the help of ancillary geospatial data for in-depth SDG indicator measurement

镇名 Town names	人口 population
武康街道	89944
阜溪街道	26008
下渚湖街道	23999
舞阳街道	52180
洛舍镇	20553
钟管镇	43856
莫干山镇	31643
乾元镇	49644
雷甸镇	37592
新安镇	31730
新市镇	72395
禹越镇	33297











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### Scope of Task

This task stream seeks to identify existing exemplars, develop good practices for key challenging issues, and document methodologies on geospatial disaggregation and aggregation for supporting SDGs.

- Identify exemplars
- Develop good practices
- Document methodology



### Develop good practices

- to identify methodological gaps in disaggregation by geographic location and aggregation (such as the spatialization of population density, rural and urban disaggregation from land cover data sets)
- to encourage / mobilize members and experts to provide solution and to develop good practices;



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# A booklet

# The booklet may be organized like this:



select about 10-12 good practices or exemplars from different regions from the world by the task stream members

	A booklet	
<text><section-header><text></text></section-header></text>	<image/> <complex-block></complex-block>	demonstrate how SDG indicators can be disaggregated from a geographic location perspective.

## A booklet

- A call for best practices will be sent or circulated to member nations, UN organizations and other invited experts.
- The targeted readers include the IAEG-SDG, decision makers, statistical professionals and even citizens.



# A draft content

#### 1 Introduction

1.1 Needs of Data Disaggregation and Aggregation for SDG

1.2 Multiplicity and Diversity of Data for SDG

#### 2 Data preprocessing

- 2.1 Unification of Space-Time Reference Framework
- 2.2 Geocoding of Statistical data
- 2.3 Normalization of Statistical data

#### **3** Disaggregation for SDG

- 3.1 Interpolation with Area/Distance Weighting
- 3.2 Dasymetric Disaggregation
- **3.3 Stochastic Allocation**

#### 4. Aggregation for SDG

- 4.1 Classification/Clustering
- 4.2 Interpolation/Resampling
- 4.3 Simplification/Typification
- 4.4 Smoothing/Filtering

# A draft content

#### 5 tools/resources

- 5.1 Software tools
- 5.2 Available resources

#### 6. Examples and Recommendations

- 6.1 Selected examples
- 6.2 Recommendations

#### References

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	Invite Experts			
٦	This task stream will be participated by members from IAEG-SDGs: WGGI and invited			
inte	ernational ex	perts.	A close collaboration will be	established with the UN-GGIM Expert
Gro	oup on Integr	ation c	f Statistical and Geospatial In	formation
	Names	Society	Affiliation and Correspondence	Expected contribution
1	Zhilin Li	ISPRS	Professor, Hong Kong Polytechnic University	the state-of-the-art of geospatial disaggregation and aggregation; new approaches;
2	Sisi Zlatanova	ISPRS	Professor, Melbourne University	Aggregation and disaggregation of urban and moble data
3	Songnian LI	ISPRS	Professor, Rayson University	Geospatial knowledge portal and technical gideline
4	Monica Sester	ICA	Professor, Hannover University, Germany	Aggregation and disaggregation of maps and land cover data
5	Robert Weibel	ICA	Professor, Department of Geography, University of Zurich	Aggregation of map and other geographical data
6	Liqiu Meng	ICA	Prof. Munich Tech. Uni., Germany	disaggregation for Population data
7	Andrew J Tatem	IGU	Professor, Uni. of Southampton, UK	disaggregation for Population data
8	Giles Foody	IGU	Professor, University of Nottingham	Super-resolution of image data
9	Martin Brady		Australian Bureau of Statistics, Canberra, Australia	Integrating with Global Statistical Geospatial Framework
10	Xuesheng Zhao		Prof. China University of Mining & Technology, Beijing	Global discrete grids and rural/ urban disaggregation
11	Yungang Hu		Associate professor, Beijing University of Civil Engineering and Architecture	Disaggregation for roads and traspotation networks



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5	Background Scope of Task Expected deliverables Plans Summary



