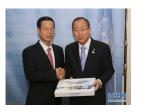
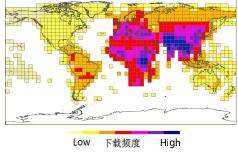


Accuracy Assessment							
Some other experts conducted national or regional accuracy assessments							
regional	Sample	e size	асси	iracy	Investigato	rs	sources
Water ,N. Europe		91%			ETH/IIASA		GIM, Dec., 2014
Country/area		Accuracy		Sources			
Germany		92%		Int. J Digital Earth, 2016(on line)			
Greece(Thessaly Region)		91%		Land, 2015, 4,1-18			
Iran(6 study sites)		77.9%		Habitat International,2016,1-7			
Italy(8 areas)		>80%		Remote Sensing, 2015(7), 2107-2122			
China		82.3%		ISPRS J P&RS,2017			
Child		82.3%		ISPR	SJP&RS,	201	/

2.3 GlobeLand30's Users

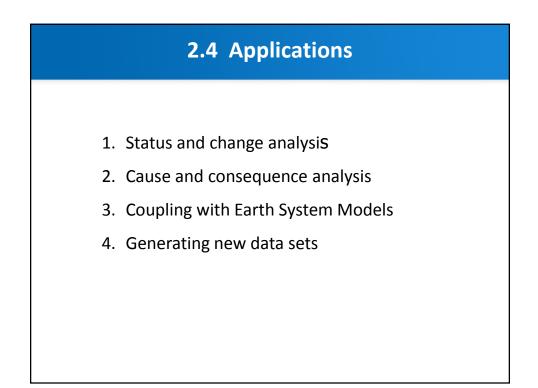
Globeland30 was donated to UN in Sept. 2014, New York, by Chinese government, and has so far more than 6000 users from 120 countries

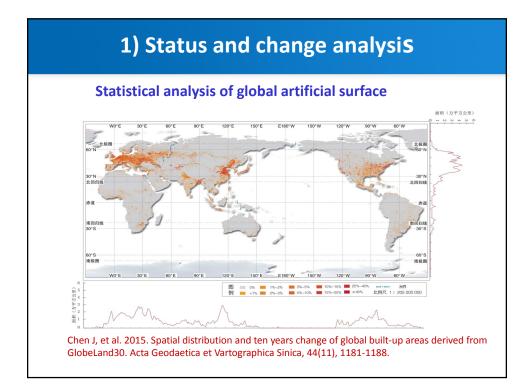


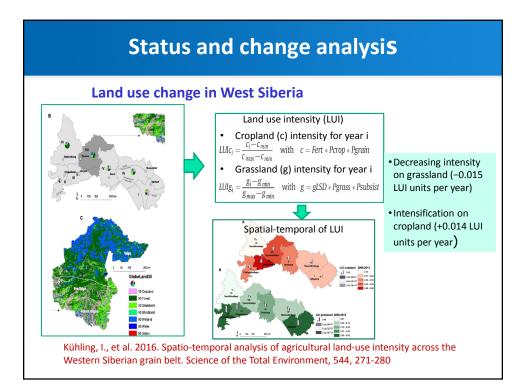


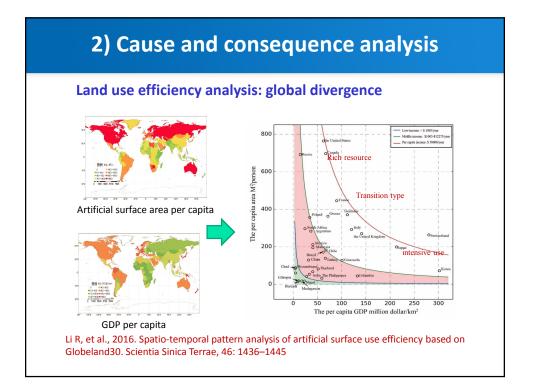
Chen et.al., 2014, China: Open access to Earth land-cover map, Nature, 514:434, 23 Oct. 2014

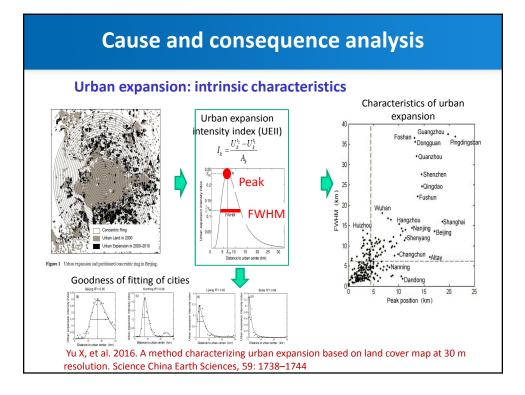
Exan	nples of International Users	
Over 260 a More thar	agencies 300 Univ.(49 in Times TOP 100, 7 in TOP 10)	
Users	Name of Organizations	
UN systems	FAO、 UNEP、 UNCCD、 UN-Habitat、 UNMIS、 ESCAP、 UN Unit in Mali、 UNESCO Islamabad,	
NGO	WWF 、 TNC, The Nature Conservancy) 、 Conservation International,	
GOV	USGS、NASA、GSFC、USGS、European Commission,	
Research institutes	JRC、 DFZ、 IIASA、 INPE、 Indian Institute of Science、 Space Research Institute of Ukraine、 IERSD/NOA,	
Universities	Harvard、Yale、 Un. Maryland、 Colombia Uni.,	

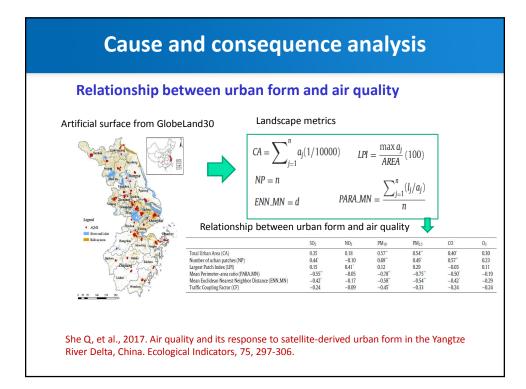


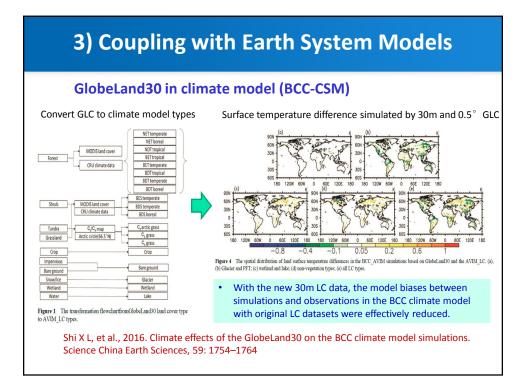


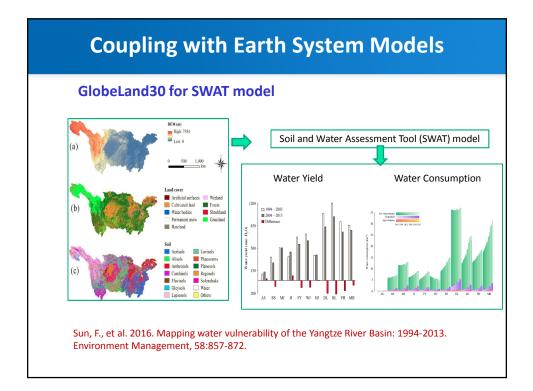


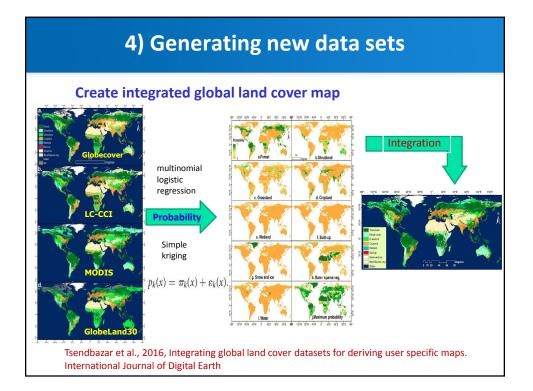


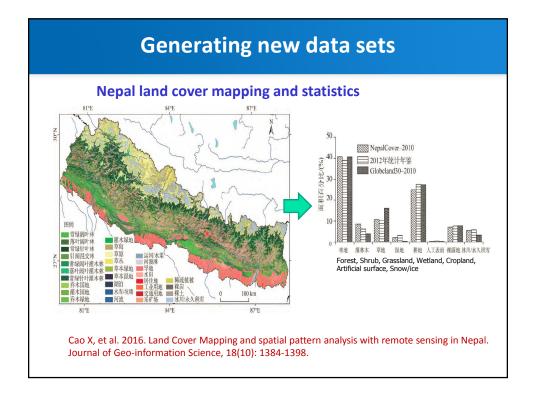


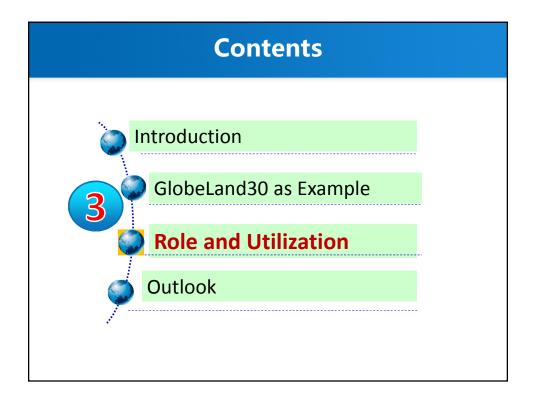


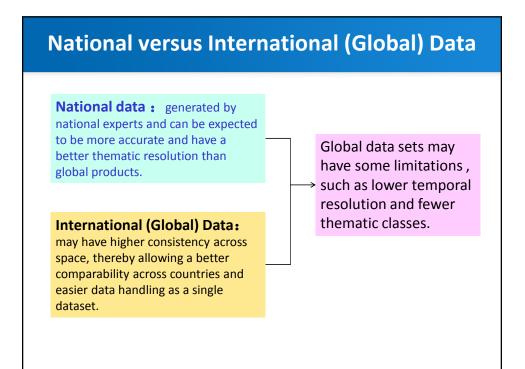






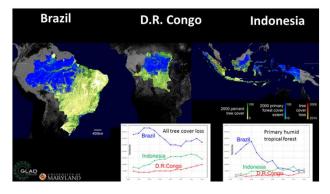




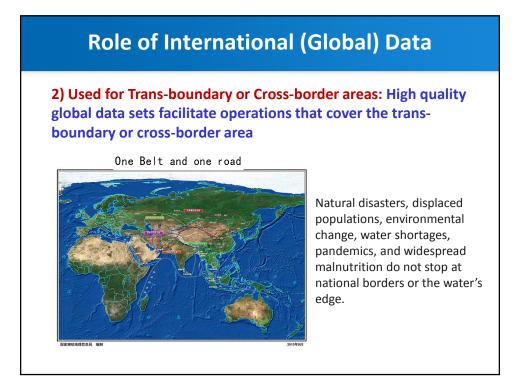


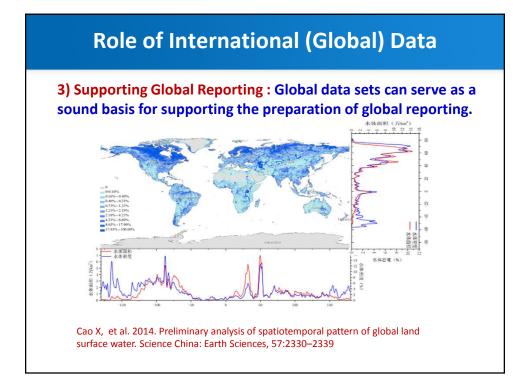
3.1 Role of International (Global) Data

1) as Supplement to National Data: Global datasets with relatively fine spatial resolution can offer a potential alternative when reliable national data not available



It is also possible to integrate national and global data sets for more effective SDGs monitoring, especially if the data have similar spatial resolutions





3.2 Utilisation of International (Global) Data

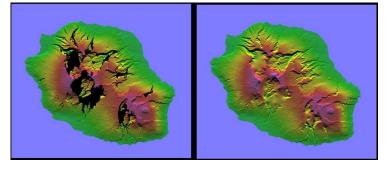
There are several issues to be considered when selecting suitable international (global) data sources for use in the computation of SDG indicators and national reporting:

- Data quality
- Data conversion/ augmentation
- Scale and integration
- Measure issues
- Securing national ownership

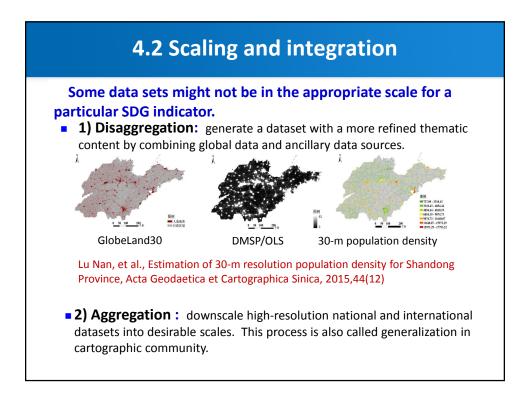
4.1 Data Quality

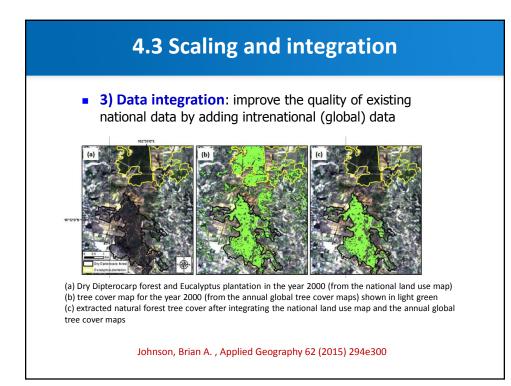
Data quality refers to geometric, thematic accuracy, as well as temporal aspects, and has significant influence on reliability of measures for SDG indicators

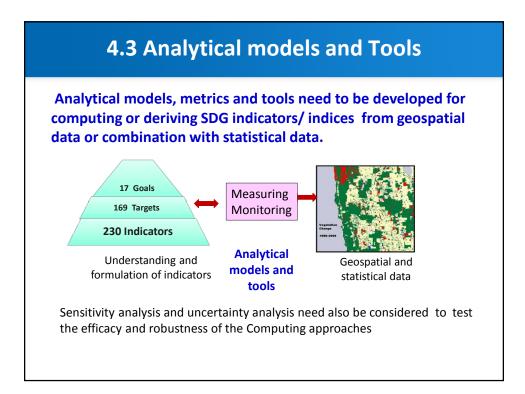
SRTM DEM problems: data voids - radar shadows



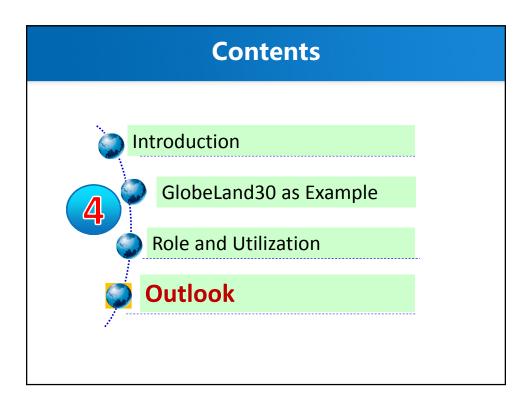
It is necessary to conduct a thorough evaluation of the uncertainty of the data before utilisation

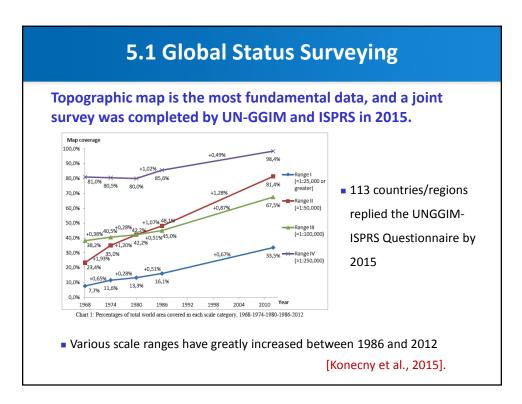


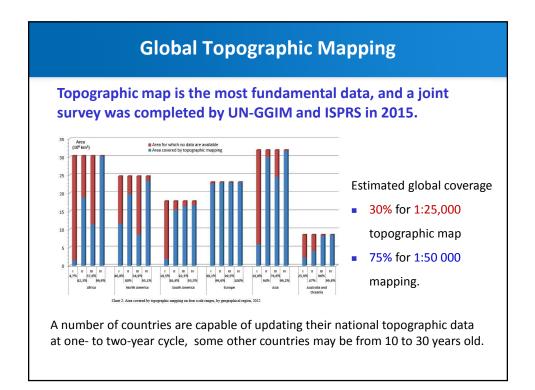




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Land Cover Data

Global land cover mapping has witnessed significant progress in spatial and temporal resolutions, as well as thematic accuracy,

Global Land Cover data sets with fine resolution

GlobeLand30 30 m 2000, 2010 10 classes/ 80.3% Global tree cover 30m Annual (2000-) One class(forest)/ ESA Land Cover 300m 1998-2002, 2003-2007 and 22 classes/ 74%(2008-
ESA Land Cover 300m 1998-2002, 2003-2007 and 22 classes/ 74%(2008-
CCI 2008-2012 2012)

DEM da	tasets ha			Data ed at a global scale with the help
		tion senso		
		Global D	EM dat	a sets available
Product	Spacing	Vertical accuracy	Year	Remarks
SRTM	30m/90m	10–15 m	2000	Generated by Shuttle IfSAR, covering 56 $^\circ$ N to 60 $^\circ$
ASTER GDEM	30m	7–14 m	2009- 2011	Generated by ASTER and gaps filled with SRTM
World DEM	12m	2m (rel) 4m (abs)	2014	Generated by TanDEM-X; DSM and DTM commercially available at cost
ALOS World 3D	30m	5 m	2016	Generated by LOS PRISM; freely available and based on 5 m global DEM which is available commercially at cost
				Dowman, 2017, Digital Earth

Image Data

Another main data source is satellite imagery in many different formats/resolutions and with often quite frequent updates.

Satellite	Spatial resolution	SDG		
Landsat 8	 15 meters/30 meters/100 meters (panchromatic/multispectral/thermal) 	•	SDG-6: Water SDG-15: Forest	
Sentinel 1	 Strip Map Mode: 80 km swath, 5 x 5 m Interferometric Wide Swath: 250 km swath, 5 x 20 m spatial Extra-Wide Swath Mode: 400 km swath, 20 x 40 m spatial Wave-Mode: 20 x 20 km, 5 x 5 m spatial resolution. 	•	SDG-6: Water SDG-15: Forest	
Sentinel 2	•13 spectral bands: four bands at 10 m, six bands at 20 m and three bands at 60 m spatial resolution. The orbital swath width is 290 km.	• •	SDG-6: Water SDG-15: Forest	
ZY				

