



Environmental Consequences



High concentrations of aerosols, exhaust gases, pollution and dust

➤ Hazardous to health









Environmental Consequences

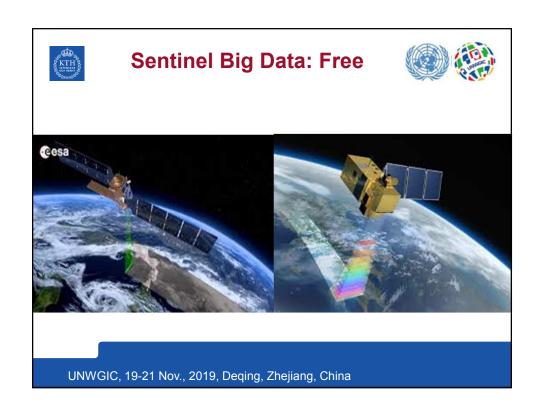


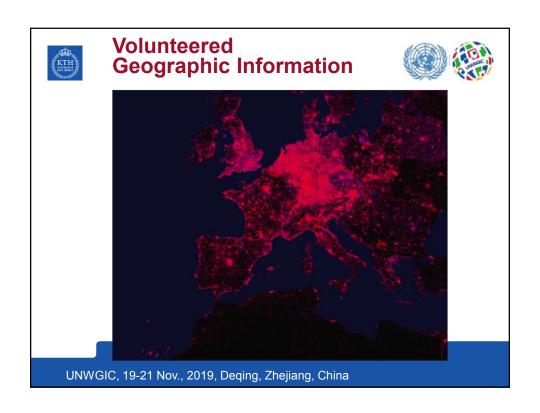


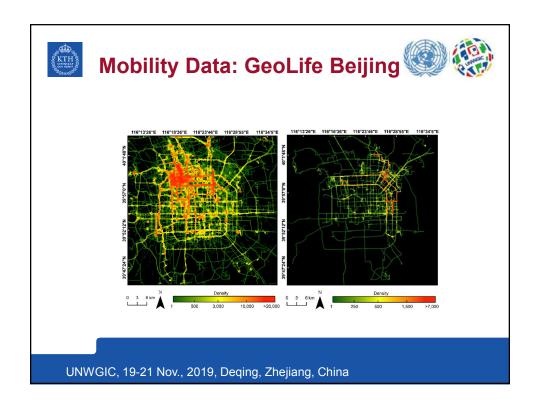
- > Paved surfaces -> rainfall water -> flooding
 - Urbanization results in more impervious surfaces, thus reducing the area where infiltration to ground water can occur. Thus, more storm water runoff occurs.
 - 79 people died in July 2012 Beijing flooding



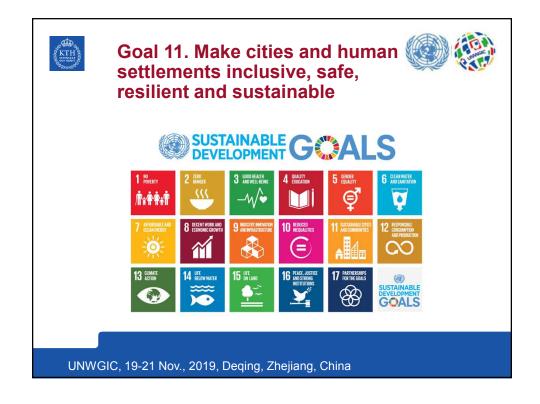














UN Urban SGD Indicators





Target 11.3: By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.

Indicator 11.3.1 Ratio of land consumption rate to population growth rate – Land use efficiency

Target 11.7: is providing universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities.

11.7.1 Average share of the built-up area of cities that is open space for public use for all, by sex, age and persons with disabilities





UNWGIC, 19-21 Nov., 2019, Deqing, Zhejiang, China



EO4Urban



➤ The overall objective is to evaluate multi-temporal multi-resolution Sentinel-1A SAR and Sentinel-2A MSI data for developing a pilot global urban services based on user requirements to support smart and sustainable urban development.

Team KTH Royal Institute of Technology, Sweden

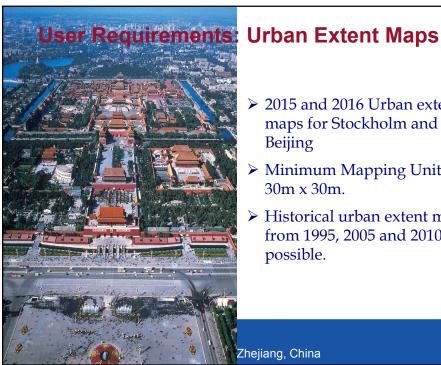
University of Pavia, Italy

Users Stockholm County Administrative Board, Sweden

National Geomatics Center, China







- ➤ 2015 and 2016 Urban extent maps for Stockholm and Beijing
- ➤ Minimum Mapping Unit at 30m x 30m.
- ➤ Historical urban extent maps from 1995, 2005 and 2010 if possible.

Zhejiang, China



User Requirements: rban Green Structure & Change Maps

- ➤ Maps of urban green structure changes in 2015 and updated yearly
- ➤ Minimum Mapping Unit at 30m x 30m.

g, Zhejiang, China

