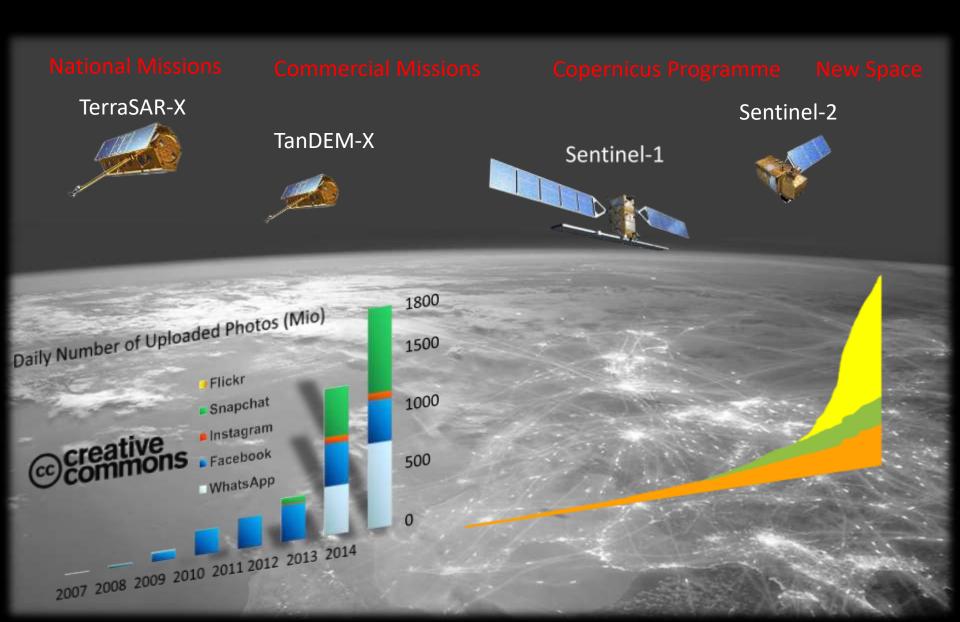
Big Earth Data from Space for DRR and Emergency Response in Africa

Guenter Strunz
Earth Observation Center
DLR

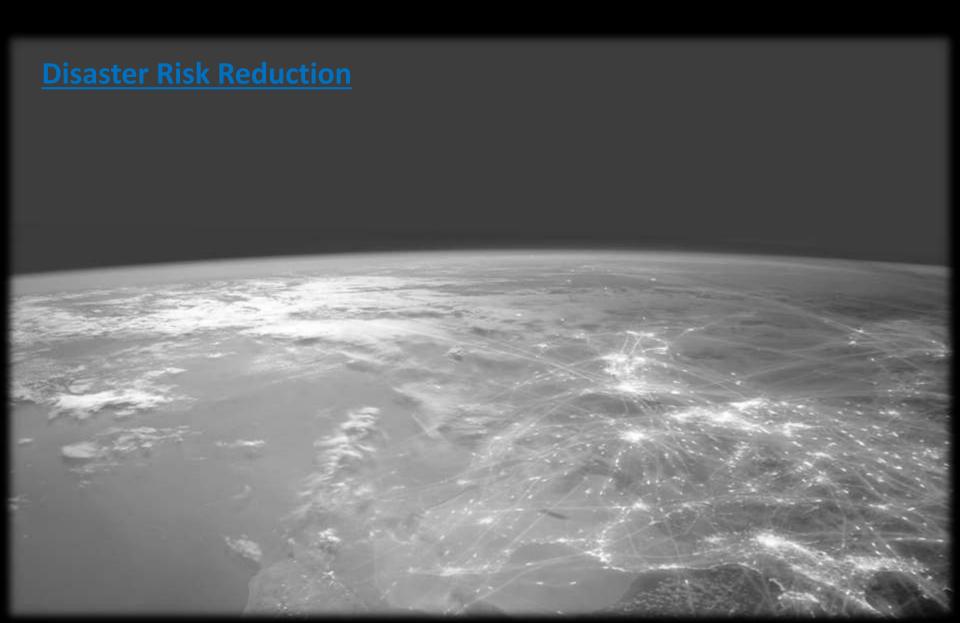




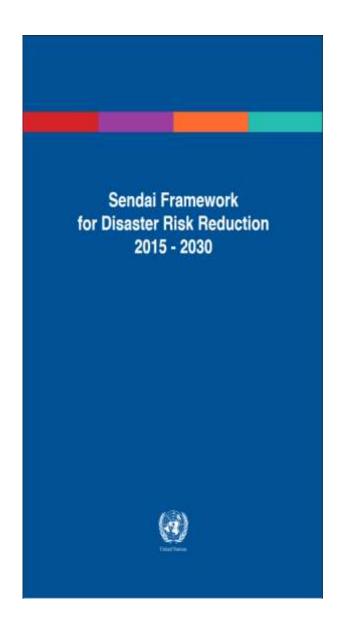
Big Earth Data



Big Earth Data for ...



UN Framework for Disaster Risk Reduction







World Settlement Footprint: Mapping Global Urbanization

- Global Urban Footprint (GUF).
 - Data base: 182,249 TerraSAR-X/TanDEM-X images (3m) collected in 2012 (308 TB).
 - Spatial resolution: 12 m (scientific use),
 84m (non-profit use).
 - Release: November 2016.
 - Users: >300 institutions from 43 countries.
- World Settlement Footprint (WSF).
 - Use of free and open data.
 - Multi-source (Sentinel-1, Landsat/Sentinel-2).
 - Multi-date (use of all scenes acquired).
 - Multi-facility (DLR, HPC-IT4I, GEE).

Product portfolio:

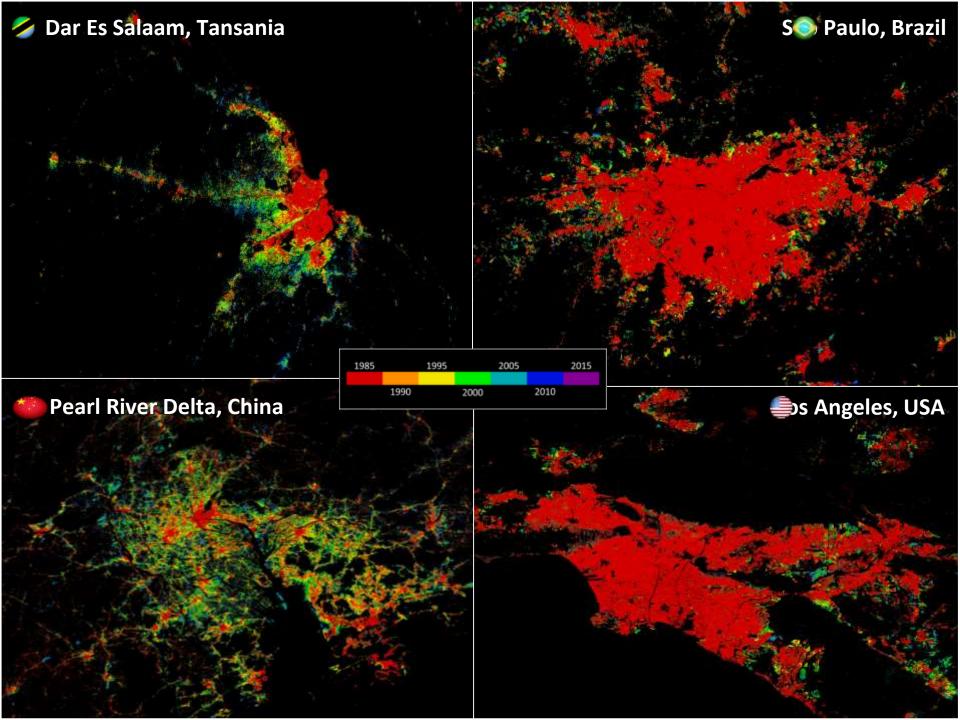
- WSF 2015 (10m, binary mask).
- WSF 2015 Density (30m, imperviousness).
- WSF Evolution (30m, 1984-2015).











Big Earth Data for ...



Emergency Response



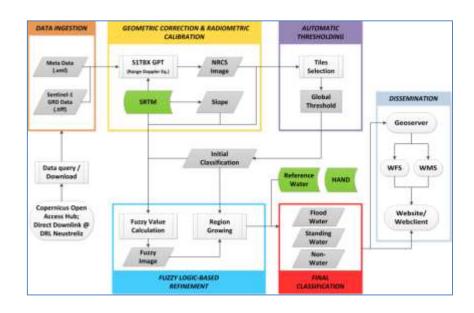




Towards a "data driven" approach on global scale









Big Earth Data for ...

