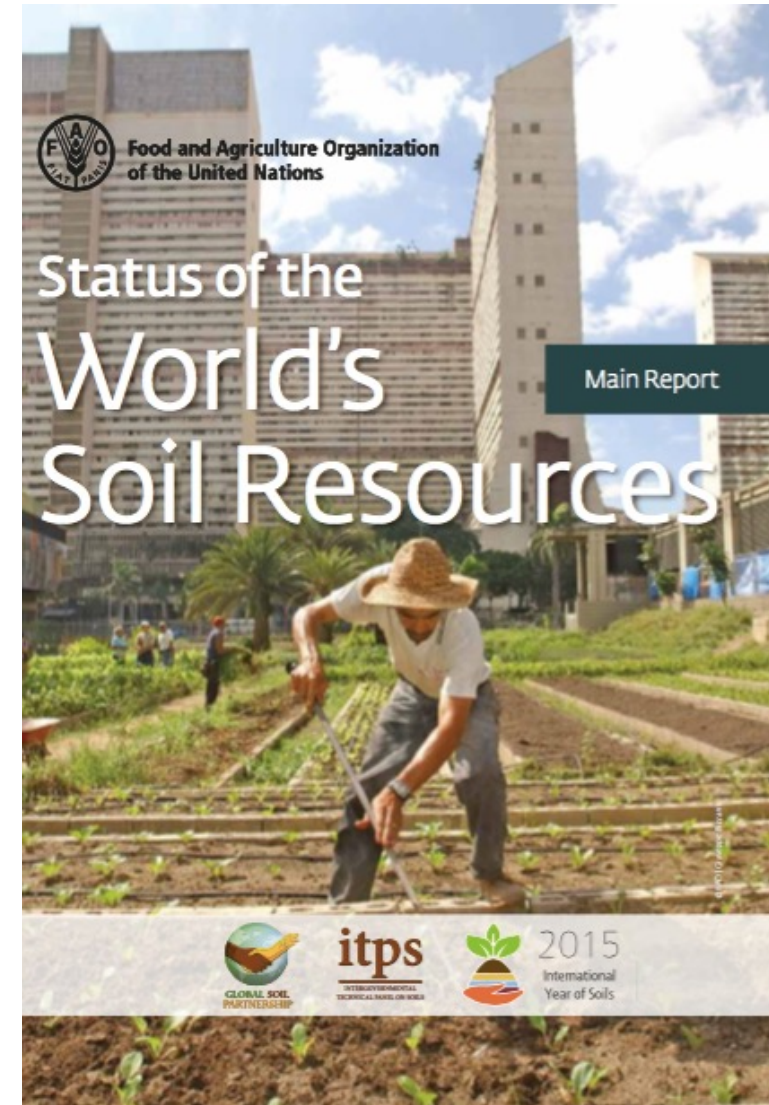




Major Threats

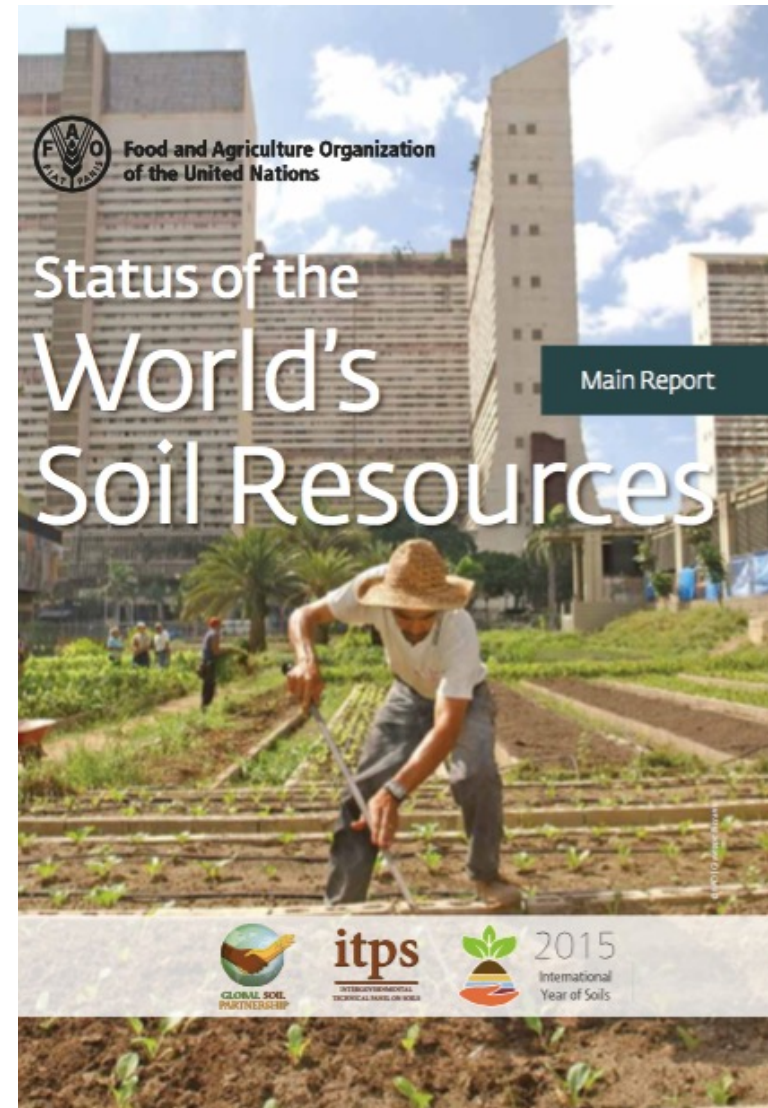
- Soil erosion
- Soil carbon change
- Nutrient imbalance





Additional Threats

- Salinity/sodium
- Sealing/Land take
- Loss of biodiversity
- Acidification
- Contamination
- Compaction
- Waterlogging





Soil Carbon Change

- Role of soil C in soil health
- Role of soil in global cycling of GHG's
- Soils as source/sink for GHG's
- Influence of soil management on soil health & global GHG balance
- Site specific, sustainable soil management practices that have a positive impact on soil health & global climate change



Sustainable Soil Management

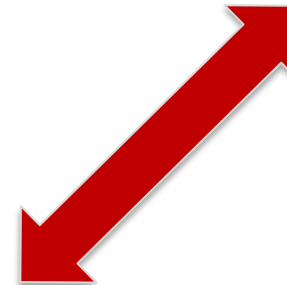
SSM



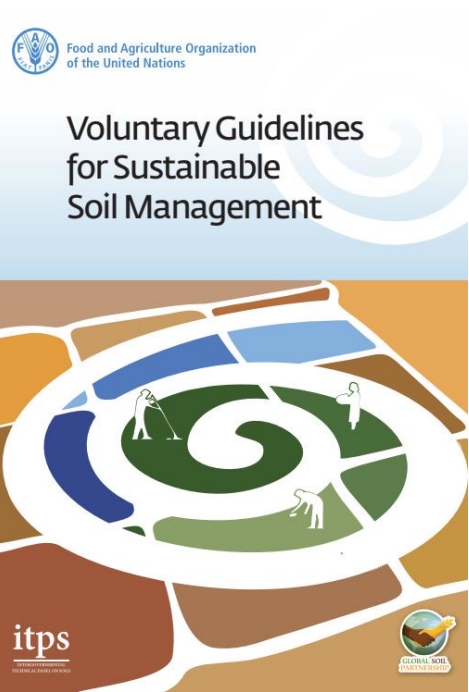
Soil Health



Soil Science
Economics
Behavior
Social Science
Culture



How and why soil management
decisions are made





Critical Needs in Soil Science

- Global climate change
- World hunger/nutrition
- Water quality
- Soil health and sustainability
- Assessment of global soil conditions:
Carbon, soil erosion, and soil pollution
- Emerging and known contaminants
- And more . . .





Critical Needs in Soil Science

- Embedded in each:
 - Fundamental soil science
 - Basic and applied research questions
 - The need to work across many disciplines
 - Protect and enhance the soil resource
 - Goal of solving important issues for society
- Great time to be a soil scientist!

