World Soil Museum

- 1100 monoliths (>85 countries); 90 in museum.
- All monoliths are completely described, sampled and analysed. Collection built up over a period of 50 years.
- Represent the great variety of soils in the world.
- Valuable collection for scientific research and education.
- ~2500 visitors per year. From primary and secondary school kids to scientists.
- 2015: Indonesia, Surinam, Georgia, Bhutan
Soil monoliths

A way to preserve and display soils for education and advocacy

Undisturbed depth samples of soil, that show the ‘natural’ appearance of the soil:

- Colour
- Texture
- Structure
- Depth
- Roots
- Pores
- Artefacts
Monoliths and the World Soil Museum

- The monoliths are the core objects of study and carriers of information for education in the museum.

- Soil monoliths are an excellent medium for:
  - Creating soil awareness
  - Soil education and research
  - Soil classification practice
Soil judging during ISRIC’s Spring School course on World Soils and their Assessment (WSA)
Soil monoliths and education / wareness

- Level 1: Soils are diverse across the globe and at the landscape level

- Level 2: What factors contribute to this variation and influence soil types and their specific properties

- Level 3: What is the importance of the variation of soil and their properties
Level 1: Soils are diverse across the globe and at the landscape level

- No visibility obstructing objects
- All monoliths visible from most spots in the museum
Level 2: What factors contribute to this variation and influence soil types and their specific properties

- By and large soil monoliths are displayed in sections representing the soil forming factors
- Additional sections include:
  - Soils of the Netherlands
  - Man and soil
  - Soils and land management
  - Soils and colour
sodic properties

Other classification

Classification (other) Salipanic brown desert soil, Panic Salic Orthic Aridosol

Physical

- Particle size distribution:

- Water retention characteristics

- Other physical data

Chemical characteristics:

- Soluble salts:

- Profile description

Uitklapbare links
Theme stations:
the role of soils in global themes:
- Food security
- Soil biodiversity
- Soils and landscape
- Land degradation and conservation
- Soils and climate
- Soils and water
Virtual soil museum project

- The museum concept and content will be made available online for distant access to the collection and in support of the real museum.

- Thematic expositions that have a relation with soil, that could be art, soil (monoliths), or objects in the field of natural science.
Virtual World Soil Museum

Online access to the museum and its collections
- A virtual tour of the WSM (Google tour)
- Interactive selection and browse facilities of digital collections (e.g. monoliths, maps, images)
- Using various platforms (e.g. Google Earth)
- Not bound to physical limitations of the WSM
Virtual soil museum project

- The museum can be viewed as it is through a visual tour
- Online provision of access to multimedia in the museum and the information related to the soils in the exposition
- Not bound by physical limitations
- Can provide access to the whole collection and link with other relevant sources
Online access to the WSM soil collections and data
Example: browse through the monolith collection

http://museum.isric.eu/maps2/
Example: Distribution soil reference groups

http://museum.isric.eu/wrb/?wrb=Arenosols
Example: Global soil degradation

http://museum.isric.eu/glasod/index.html

World Soil Information
World Soil Museum

Physical collections

WSM exhibition space

Content
  - software

IT hardware

Host

WSM multi-media

Tour guide

Lecturer

Users

Virtual Soil Museum

Google tour

WSM website
WSM Website - Prototype

http://wsm.isric.org/
WSM Website - Prototype

http://wsm.isric.org/

(DEMO - Prototype)

(SUGGESTION WELCOME !!!!)
Components of the VSM

- Central table
- Collection search facility from the tablets
- Theme stations content and functionality
- Attractive new text content and presentation
- Make your own gallery facility
- Plan your visit to the WSM
- Links to ISRIC sources and platforms