

Bodemgeletterdheid: Bodemnarratieven en bodemeducatie



Stephan Mantel – ISRIC World Soil Information
Najaarsthema dag 90 Jaar NBV, 31 oktober 2025, Wageningen





Vergadering Laboratorium
Microbiologie, LH Wageningen.
29 maart 1937



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Microbiologie, LH Wageningen.
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Themadag
24, 25, 25 September 1936
Studie bodemkuil in Bennekom

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Soil literacy

Soil literate ≈

- Bodemgeletterd
- Bodemgeïnformeerd
- Bodembekend
- Bodembekwaam
- Bodemkundig



Wanneer in je leven had je voor het eerst beseft van bodem?

Bron:

<https://x.com/WorldSoilMuseum/status/1202626148>
099862529





Bron:
<https://www.forbes.com/sites/tmullen/2020/08/10/working-remotely-from-the-pyrenees-peaks-of-france/>





Bron:
[https://files.isric.org/
public/documents/ISR
IC-
WorldSoilInformation
_AnnualReport2018-
2019_digital2.pdf](https://files.isric.org/public/documents/ISR-IC-WorldSoilInformation_AnnualReport2018-2019_digital2.pdf)





Hermosa, Mexico

Luvic, Vertic, Endocalcic Phaeozem (Chromic, Katoclayic, Epiraptic)





ISRIC
World Soil Information





Hoe krijgen we onze kinderen geïnteresseerd in kunst?



CREDIT: BLEND IMAGES PHOTOGRAPHY/ VEER

Hoe krijgen we onze kinderen geïnteresseerd in bodem?







Core groups World Soil Museum : higher education students



School programs (cooperation with Wageningen pre-University)



Maak verbinding

Stimuleer de verbeelding

Verkennen/experimenteren

Gebruik van de zintuigen

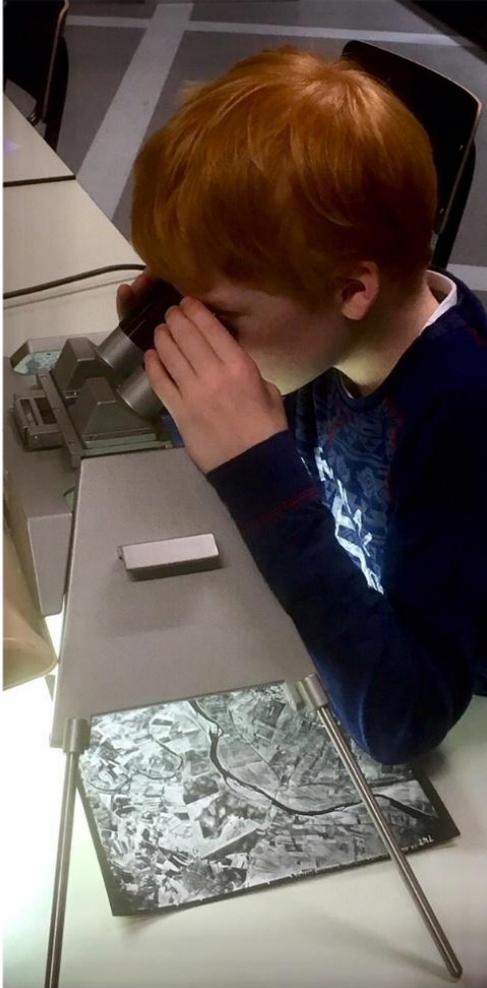




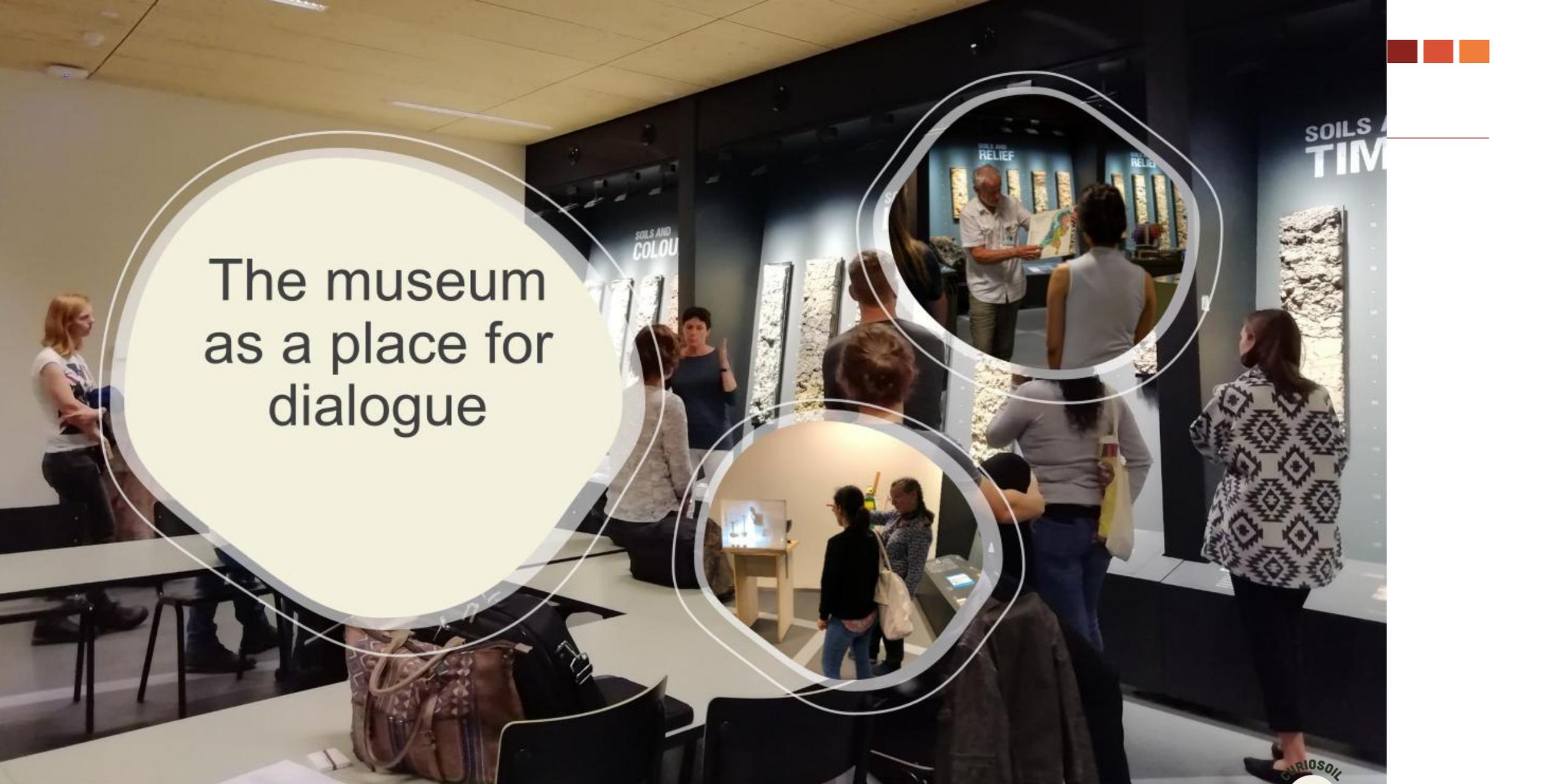




Publieke evenementen (Wetenschapsweekend)



The museum as a place for dialogue





Storytelling

A way to connect
with other people
and help them see
what you see

Dry facts are connected by a
dramatic line so that they
are better understood by the
recipient and are
remembered longer



Source: Michael Margolis, Get Storied



Every soil has a story ...



Organic soil 

Peat excavation

Watermanagement and safety

Desiccation

Pollution

Soil as archive

Urban waste

Human impact on soil

Subsidence

Etc.



Distant real-time virtual tours: Concordia International School Hanoi

Ook voor:
Mexico (National
University)

Kirgistan (Central
Asian Soil Science
Society)

IOWA state
University

Leuven University

Leeds University

Ministry of Ministry
of the Interior and
Kingdom Relations





2014

herman de vries – Aarduitwrijvingen





- Exposition and symposium





Artist in residency (1) masha ru – museum of edible earth



Mrs. Jo Gibbons/Wild Olive: scent of soil, soil perfume





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DG Agriculture and rural development
European Commission

#EUmissions #HorizonEU #MissionSoil

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Research and Innovation SERI

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Awakening Soil Curiosity to
Catalyse Soil Literacy





Soil Literacy Assessment Framework

Nafiseh Taghizadeh Kerman, **Ingrid Lubbers**, Omid Noroozi, Jetse Stoorvogel



To raise awareness and ensure the **long-term health and productivity of soils** on all types of land.



Vakgroep Bodemgeografie en Landschap



Twee vragenlijsten:

- Basisonderwijs (8-12 jaar)
- Algemeen publiek (secundair onderwijs (14-18 jaar) en hoger onderwijs, leraren en levenslang lerenden)



Ontwikkeling van het Soil Literacy Assessment Framework (SLAF)

- Om een **basisoverzicht te maken van bodemkennis op primair, secundair en tertiair niveau** op Europese schaal **om bodemkennis te beoordelen en in kaart te brengen**;
- De SLAF wil een **gemeenschappelijke referentie** zijn die iedereen die werkzaam is in
- bodemonderwijs en -training kan gebruiken, delen en raadplegen;
- De SLAF is ontworpen ter **ondersteuning van onderwijs in elke leeromgeving**.
- De ontwikkeling van de SLAF **voor vijf doelgroepen**, waaronder basisonderwijs, Secundair onderwijs, tertiair onderwijs, leerkrachten en levenslang lerenden, in samenwerking met onderwijs- en communicatiedeskundigen en bodemwetenschappers



Stories



The volcanic eruption that proved fatal to the French King (Adults)

This story is based on the 1783 eruption, which had a big impact on Europe

Start →



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23:13



On July 14th, 1789, the french population rised up and stormed the political pris the Bastille marking the beginning of the French Revolution which would end with the death of the french king Luis XIV. While not the sole cause, Laki's eruption has been recognized as one of the contributing factors to the uprising.

Can you estimate the amount of sulfur dioxide that was brought into the Northern Hemisphere by the Laki eruptions?

A 80 million tonnes

B 120 million tonnes

C 150 million tonnes

← Back

Next →



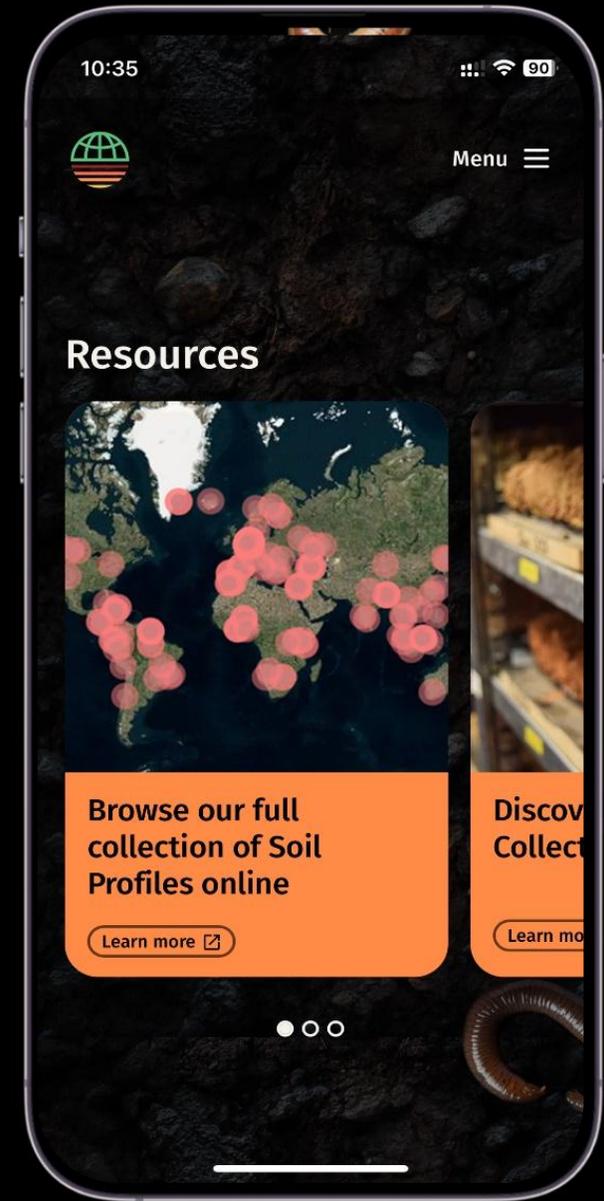
Themes



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Resources



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About the Museum



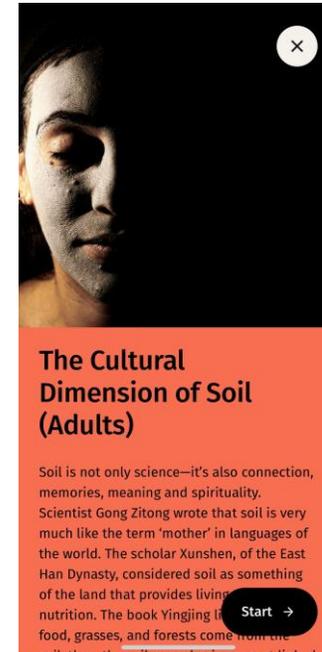
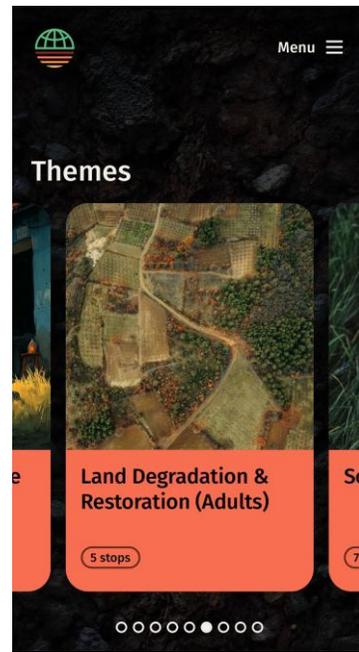
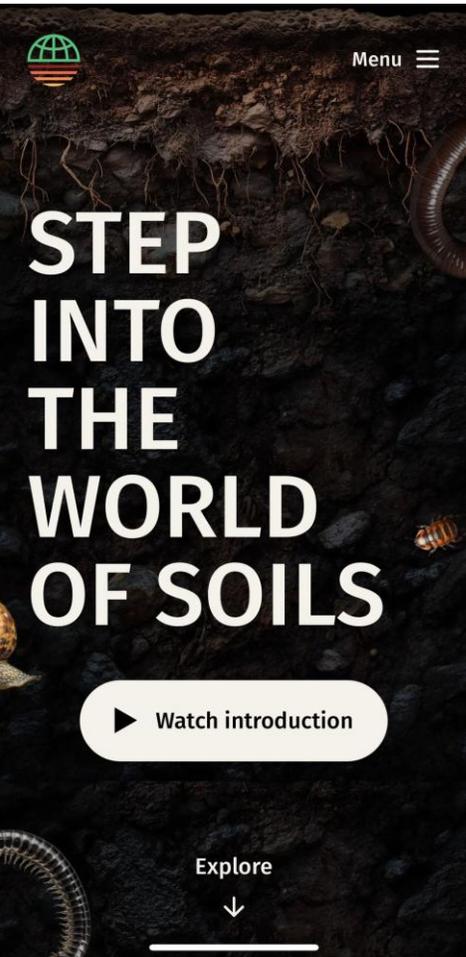
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Content tailored for four groups:
Young discoverer (kids)
Rising discoverer (Teens)
Curious explorer (Adults)
Informed learner (Academics)

Content structure:
Stories/Themes/Other information

Language: Multilingual

Includes:
Texts
Videos
Quizzes
Audio guide
Virtual tour (off site mode)
3D soil profiles and volcano
AR applications





Samenvattend

- Met de juiste aanpak voelen mensen zich makkelijk verbonden met de bodem
- Verhalen vertellen en een optimistische verhaallijn gebruiken
- Nieuwsgierigheid creëren en de verbeelding stimuleren
- Multizingtuiglijke blootstelling aan de bodem
- Dialoog stimuleren
- Het snijvlak tussen kunst en wetenschap stimuleren



Stay Curious

