



a world of soil... ..a sustainable world!



Soil: the great connector of our lives now and beyond COVID-19

Copernicus

Humanity depends on the existence of healthy soils, both for the production of food and for ensuring a healthy, biodiverse environment, among other functions. COVID-19 is threatening food availability in many



The State of Food Security and Nutrition in the World 2020

Fao

Transforming food systems for affordable healthy diets



Urban Food Actions Platform | FAO

Fao

This platform provides access to a comprehensive database of FAO and non-FAO resources related to urban policies and programmes to achieve sustainable urban food systems. It covers a wide range of aspects:



Urban farming: four reasons it should flourish post-pandemic

Phys

Since lockdown, public interest in growing fruit and vegetables at home has soared. Seed packets are flying off shelves and allotment waiting lists are swelling, with one council receiving a 300% increase in applications.



Why political decision-making is failing our urban green spaces

 The Conversation

Politicians are keen to talk up the benefits of parks and other outdoor spaces – but less eager to spend money on their upkeep.

This table shows how each soil threat and its recommended SICS type can contribute to the SDGs shown along the top of the table.

		2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	6 CLEAN WATER AND SANITATION	11 SUSTAINABLE CITIES AND COMMUNITIES	13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND
SOIL THREATS	SICS TYPE							
Erosion (wind and water)	Zero-tillage, landscape management, Contour traffic							
Decline in organic matter	Minimum tillage, Residue return, Mulching, Manuring							
Compaction	Controlled traffic, Low wheel load, low tyre pressures							
Decline in biodiversity	Minimum tillage, residue return, No pesticides, Minimal fertilizer							
Floods and landslides	Drainage, Landscape management							
Local and diffuse contamination	No use of polluted inputs, Trees to scavenge air-borne pollution							
Salinisation	Drainage, Targeted irrigation, Flushing							
Acidification	Liming, manuring							
Desertification	Landscape management							



Making Farm to Fork strategies work

European Week of Regions and Cities - Commission

European Week of Regions and Cities - The biggest event dedicated to regional policy.



The relevance of sustainable soil management within the European Green Deal

Sciadirect

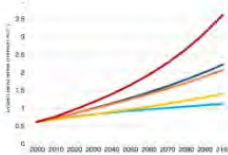
Luca Montanarella & Panos Panagos - The new European Green Deal has the ambition to make the European Union the first climate-neutral continent by 2050. The European Commission presented an ambitious



Mission area: Soil health and food

European Commission – European Commission

A mission in the area of soil health and food will provide a powerful tool to raise awareness on the importance of soils, engage with citizens, create knowledge and develop solutions for restoring soil health and soil



Mapping global urban land for the 21st century with data-driven simulations and Shared Socioeconomic Pathways

Nature Communications

Here the authors develop a set of global, long-term, spatial projections of urban land expansion for understanding the planet's potential urban futures. The global total amount of urban land increases by a factor of



Events of the 4 per 1000 Initiative | 4p1000

4p1000

Official 4 per 1000 events Save the date - online 4th "4 per 1000" Initiative Day - 9th - 10th December 2020



Is the EU 'cheating' on its net-zero emissions plan? Here's what the science says

The Conversation

'Carbon sinks' like forests and the soil have already been factored into the carbon budget – they should not be double-counted.



America's year of fire and tempests means climate crisis just got very real

the Guardian

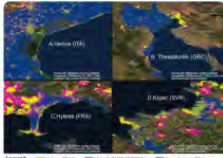
Record-breaking wildfires and hurricanes were just the most high-profile effects of global heating – and this is only the start



How the modern world was shaped by epidemics 500 years ago

 The Conversation

Virgin soil epidemics decimated Native American populations.



Future urban development exacerbates coastal exposure in the Mediterranean

 Scientific Reports

Changes in the spatial patterns and rate of urban development will be one of the main determinants of future coastal flood risk. Existing spatial projections of urban extent are, however, often available at coarse



New 'forever chemicals' contaminating the environment, regulators say

 the Guardian

Efforts in the US to oversee one PFAS compound from chemical company Solvay illustrate the challenges officials face



New study reveals that soil is a significant carbon sequestration driver

 Phys

As harmful atmospheric carbon dioxide levels continue to increase, understanding the planet's carbon balance is increasingly important.



Mysterious Craters In Siberia Linked To Melting Permafrost

 Forbes

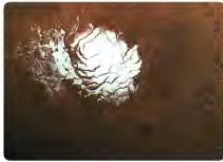
As the climate warms in Siberia, pockets of greenhouse gases are building up in the melting permafrost soil, released in sudden bursts.



Carbon mitigation potential and radiative agricultural land management

 Europa

To reach the Paris climate targets, the mitigation capacity needs to be maximized across all components of the Earth system, especially land.



Buried lakes of salty water on Mars may provide conditions for life

 The Conversation

Three newly discovered bodies of liquid water deep beneath the south polar ice cap on Mars have planetary scientists intrigued.



Study quantifies Saharan dust reaching Amazon

 Phys

A new study by researchers at the University of Miami (UM) Rosenstiel School of Marine and Atmospheric Science and ATMO Guyane quantified the amount of Saharan dust reaching the Amazon to better understand



Soil Signals Tell of Landscape Disturbances - Eos

Eos

The lasting influence humans have on Earth's critical zone—and how geologic forces have mediated those influences—is revealed in studies of soil and carbon migration.



Red River in Cusco: Palcoyo's Otherworldly Scenery - Cusco Native

Cusco Native

Visit the unbelievable Red River in Cusco, located near Palcoyo Rainbow Mountain. Discover one of Peru's most beautiful landscapes for yourself.



Plastic Mulch Improves Plant Growth For One Season, Then Damages Soil: Study

 Forbes

China has led the world in using plastic-film mulch to increase the productivity of its crops, and now it needs to lead the world in removing the plastic residue damaging its croplands, according to a study out this



Strawberry fields forever: That is, how many grams of plastics are used to grow a strawberry?

Sciencedirect

In important areas of the agricultural sector, plastic is one of the most important tools for improving the managerial and economic performance of companies. Horticultural production under protected cultivation, in



Dutch inventor's mushroom coffins turn bodies into compost

 Phys

In the Netherlands you can keep helping the planet after you die—by opting for a living coffin made of mushrooms which speeds up the decomposition of your body.



Webinar: World Earthworm Day 2020 - Super Composters Virtual Meetup – Field Studies Council

 Field Studies Council

The theme for the 5th annual World Earthworm Day on 21st October 2020 is "Super Composters" – to celebrate the relationship between man, waste and worms! We



2020 SEPTEMBER | Soil Care Network

Soil Care Network

The Soil Care Network is an interdisciplinary, global community of scholars and practitioners animated by the love of, fascination with, and dedication to soils.



TEXAS A&M UNIVERSITY
DEPARTMENT OF SOIL AND CROP SCIENCES



Job Opportunity: Tenure Track Assistant Professor
Pedology, Morphology, Soil Science

Description

The Department of Soil & Crop Sciences at Texas A&M University seeks an Assistant Professor of Soil Science with experience in pedology. A candidate that uses innovative technologies and approaches with pedological information is desired. Teaching responsibilities will include at least two courses, including undergraduate **Soil Morphology** (SCSC 310) and graduate-level **Pedology** (SCSC 605). Additional responsibilities will include coaching the **Soil Judging Team**, advising graduate students, and providing service. The successful candidate must have demonstrated effectiveness in research and written and oral communication, an interest and ability to interact in interdisciplinary or team-based research and instruction, and a sincere commitment to promoting an inclusive and collegial academic environment. The position is a full-time, tenure track, 9-month appointment: 70% research and 30% teaching. This faculty position requires an **educational and research background in soil science and pedology**. Information about the Department of Soil and Crop Sciences is available at <http://soilerop.tamu.edu/>



Qualifications

A Ph.D. in soil science or a closely related discipline is required. The successful candidate will have evidence of publication of research efforts, grantsmanship, competence in written and oral communication, and an aptitude for teaching and for mentoring of undergraduate and graduate students. In addition, they must also be able to interact productively with scientists from other disciplines, stakeholders, and individuals from diverse backgrounds.

Application Instructions – [Click Here to Apply](#)

Applicants must submit the following, preferably in PDF format: 1) cover letter (1 page) that explicitly addresses qualifications for each required/desired criterion, 2) a current curriculum vitae, 3) a two-page statement of your vision for research, teaching, and mentoring relative to this position (please include in the vision statement plans that show your commitment to diversity and inclusivity), and 4) the names and contact



Chair (W3) of Transport Ecology, Dresden,
Germany

researchgate.net

TU Dresden "Friedrich List" Faculty of Transport and Traffic Sciences, the
Institute of Transport Planning and Road Traffic



Research assistant (m/f/d) in the field of civil or
environmental engineering or comparable
discipline, Berlin, Germany

Relaxx

Your responsibilities include: Support of ongoing and strategic research activities (particularly collaboration with partners in the coordination of networking activities) Pilot investigations and studies with respect to new


Salvare il Suolo - evento finale SOS4Life
Watch later
Share

Climate change • Climate change refers to long-term shifts in temperatures and...

WEBINAR



SALVARE IL SUOLO

Linee guida
e strumenti di lavoro
per tecnici e amministratori

mer 23 settembre
10:00-12:30

Evento finale di progetto con la partecipazione di
LUCA MERCALLI

Watch on

YouTube









Salvare il Suolo - evento finale del progetto LIFE SOS4Life

 YouTube

Mercoledì 23 settembre, dalle 10 alle 12:30 in diretta sui canali Facebook e YouTube di SOS4Life e Legambiente Emilia-Romagna, l'evento finale "Salvare il Su..."


EU missions – Soil health and food
Watch later
Share

Climate change • Climate change refers to long-term shifts in temperatures and...



EU missions – Soil health and food

Watch on

YouTube

EU missions – Soil health and food

 YouTube

EUmissions #MissionSoil #EUGreenDeal Land and soils are essential for all life-sustaining processes on our planet. They are the basis for the food we grow a...



How will we prepare our towns and cities for a sustainable future?

YouTube

Our cities are growing faster than ever before. By 2050, 68% of the world's population is expected to live in urban areas. We need to work together to ensure...

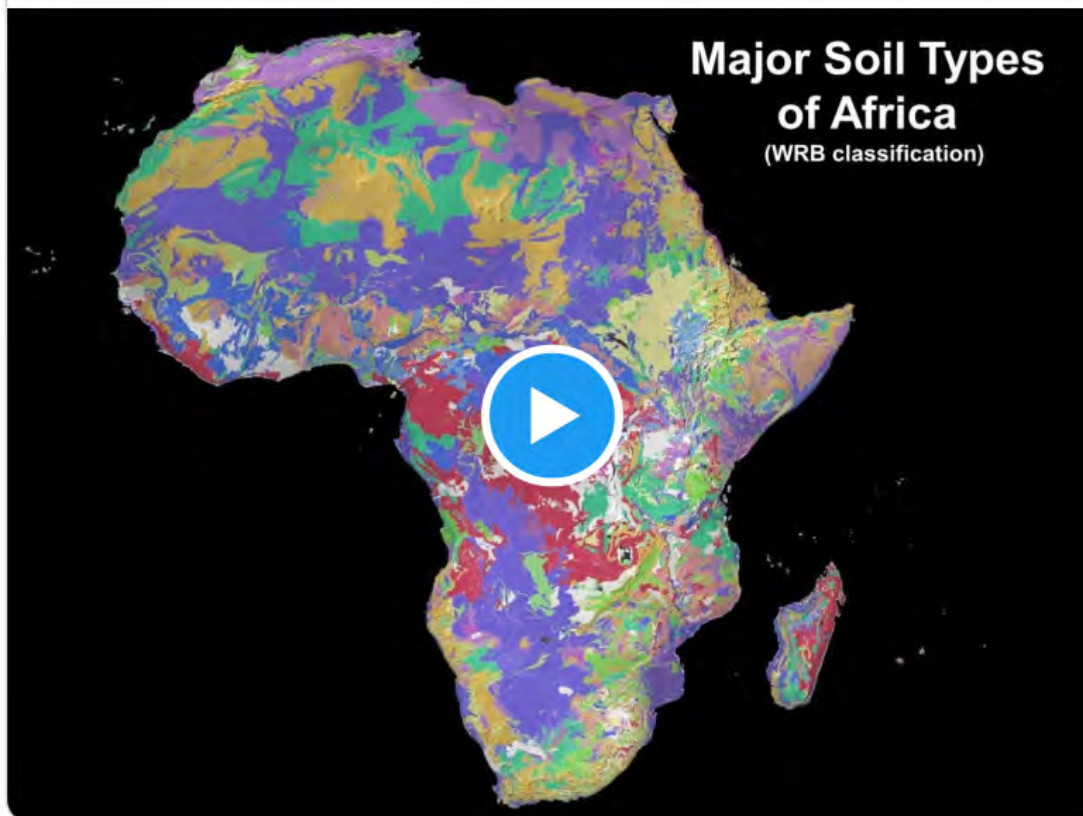
We couldn't verify the security of your connection.

Access to this content has been restricted. Contact your internet service provider for help.

4 - Earthworms

Vimeo

Earthworms feed on decomposing organic substances and their best role is the production of humus, the natural fertilizer par excellence.



The benefits of putting dirt through NanoSIMS **Understanding what's going on at the microscale of soil biogeochemistry**

Free online seminar on the application, analysis and the of Nanoscale Secondary Ion Mass Spectrometry (NanoSIMS) in soil biogeochemistry. For everyone who would like to incorporate this technique into her or his work. After two short presentations, we will provide an opportunity for your questions.

"The technical background of NanoSIMS" - Dr. Carmen Höschen

"Approaches to process and quantify microspatial patterns"

- Dr. Steffen A. Schweizer



Time: 14 October 2020 10 am CEST, register now at

www.boku.wzw.tum.de/nanosims-seminar



Technical
University
of Munich



Chair of Soil Science



www.twitter.com/TUMsoil



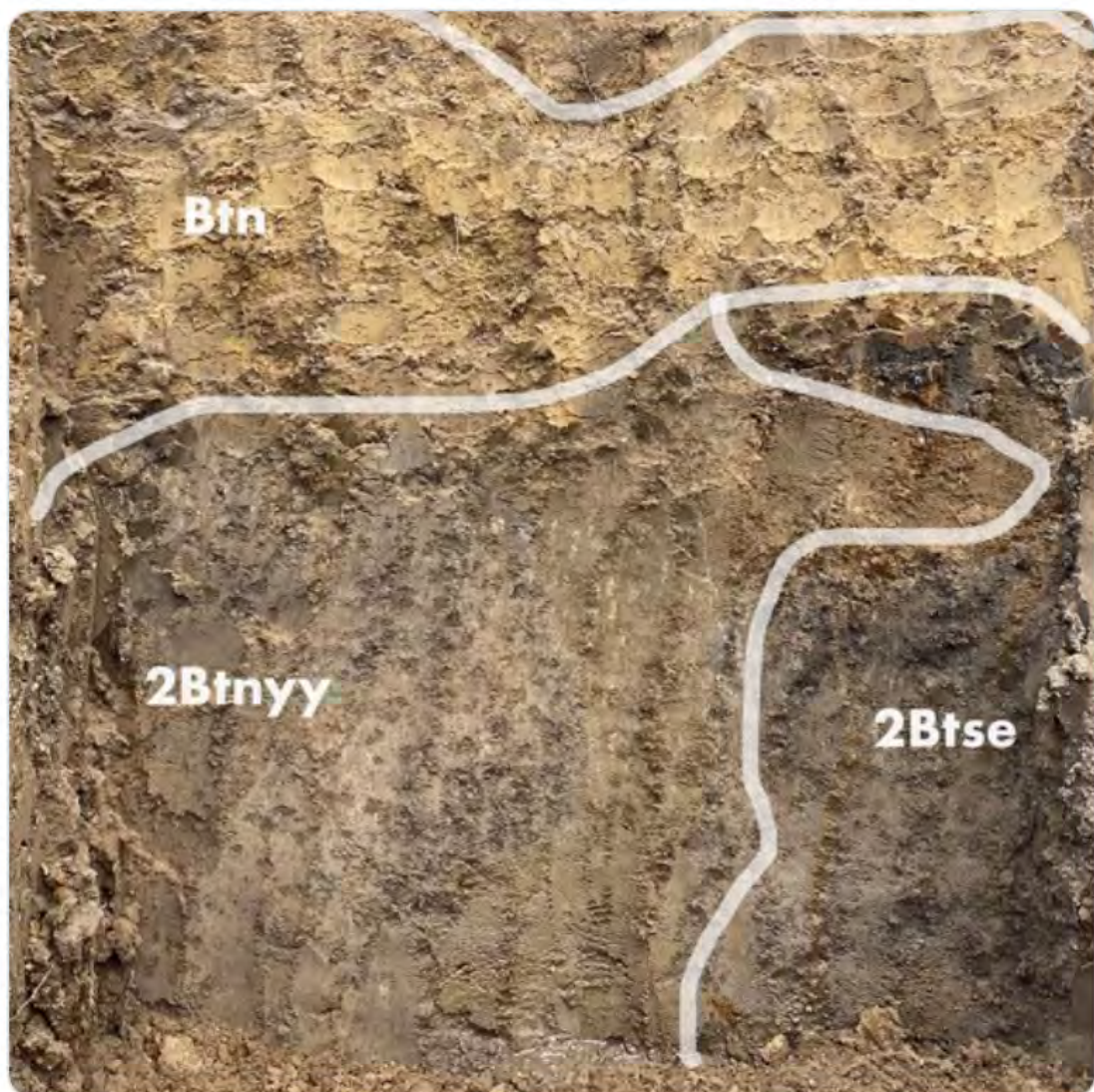
www.facebook.com/tumsoil

Questions? Have a look at
www.boku.wzw.tum.de/ and
contact nanosims@wzw.tum.de

Gefördert durch



Deutsche
Forschungsgemeinschaft







Number closed in Bologna (Italy) Oct. 5th, 2020. 09:48 AM (CET)

Contact us:

Twitter at [@cheterrapesti](#)

Facebook at [CheTerraPesti - The earth beneath your feet](#)

mail: [fmalucelli \(at\) arpae.it](mailto:fmalucelli@arpae.it)