



a world of soil... ..a sustainable world! CheTerraPesti is a multilingual, "more or less



Treated like dirt: urban soil is often overlooked as a resource

[The Conversation](#)

The earth our towns and cities are built on is teeming with potential. It is under threat too



Brazil's Atlantic Forest will change more in the next 50 years than at any time since the last ice age

[The Conversation](#)

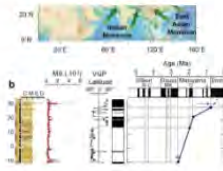
For one of Earth's most biodiverse forests, 21,000 years of natural change pale in comparison to modern, man-made climate breakdown.



'Cyborg soil' reveals the secret microbial metropolis beneath our feet

[The Conversation](#)

There are more microorganisms in a teaspoon of soil than there are humans on Earth – but what are they all up to?



Five million years of climate change preserved in one place: "Central Asian modulation of Northern Hemisphere moisture transfer over the Late Cenozoic"

Communications Earth & Environment

Earth's climatic evolution over the last 5 million years is primarily understood from the perspective of marine mechanisms, however, the role of terrestrial feedbacks remains largely unexplored. Here we



Consumo di suolo, dinamiche territoriali e servizi ecosistemici. Edizione 2021 (in Italian)

SNPA - Sistema nazionale protezione ambiente

Report SNPA n. 22/2021 - ISBN: 978-88-448-1059-7 Il Rapporto "Consumo di suolo, dinamiche territoriali e servizi ecosistemici" è un prodotto del Sistema Nazionale per la Protezione dell'Ambiente (SNPA),



EUSO Stakeholders Forum - EU Science Hub - European Commission

EU Science Hub - European Commission

A key element of the European Commission's EU Soil Observatory (EUSO) is an open, inclusive and dynamic engagement with its diverse stakeholder base.



Europe's catastrophic flooding was forecast well in advance – what went so wrong?

The Conversation

I helped forecast disaster – but nothing prepared for me what happened next.



Cities that connect people and nature are a post-pandemic priority, conference hears

Europa

Speakers at a panel at the two-day Research and Innovation Days event presented proposals for new urban design projects that emphasise wellbeing, mental health and strengthening social ties across generations



'We need more people': Exhausted firefighters battle Siberia blazes

 Phys

As thick clouds of smoke billow across the vast Siberian region of Yakutia, Yegor Zakharov and his team are racing to stop its smouldering forests from burning even more.



How flood protection can paradoxically put people at risk

 Europa

Professor Jeroen Aerts, a hydrologist at the Institute for Environmental Studies at Vrije University in The Netherlands, says that when a city builds a defensive wall or dyke, it can make its citizens feel so secure that they



Water resources: Defusing conflict, promoting cooperation

 Phys

Rivers are lifelines for many countries. They create valuable ecosystems, provide drinking water for people and raw water for agriculture and industry. In the Global South in particular, there is strong competition for



Changes in farming practices could reduce greenhouse gas emissions by 70% by 2036

 Phys

Scientists from the U.S. Department of Energy's Argonne National Laboratory participated in a study that shows innovation in technologies and agricultural practices could reduce greenhouse gas (GHG) emissions



Cities play pivotal roles in shifting to green, sustainable future

 European Environment Agency

European cities have the potential to lead the way towards green, sustainable future, according to two assessments on urban environmental change, published by the European Environment Agency



What the Ottoman Empire can teach us about the consequences of climate change – and how drought can uproot peoples and fuel warfare

 The Conversation

Drought has been a threat multiplier for centuries, fueling conflict and migration from the time of the Ottoman Empire to Syria today.



Predicting droughts and floods: why we're studying 19th-century ocean records

 The Conversation

The water cycle is intensifying as the world warms, bringing heavier downpours and longer droughts.



La sostenibilità al centro. Online Ecoscienza 3/2021 (in Italian)

 Arpa Emilia-Romagna

L'Agenda 2030 alla base delle Strategie nazionale e regionali di sviluppo sostenibile. Il focus sull'Emilia-Romagna. Al centro del nuovo numero della rivista di Arpa Emilia-Romagna un servizio di approfondimento sulla



Small climate changes can have devastating local consequences—it happened in the Little Ice Age

 Phys

In recent weeks, catastrophic floods overwhelmed towns in Germany and the Netherlands, inundated subway tunnels in China, swept through northwestern Africa and triggered deadly landslides in India and Japan.



What can we learn about agricultural practices from soil archives?

 Soils Matter, Get the Scoop!

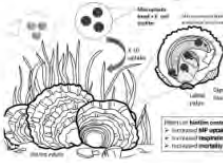
blog discussing history of soil collection archives and their importance to agriculture



What will COVID-19 look like to geologists in the far future?

 The Conversation

They will find minimal traces of the virus itself, but lots of PPE.



The plastic Trojan horse: Biofilms increase microplastic uptake in marine filter feeders impacting microbial transfer and organism health

Sciencedirect

Microplastic pollution has become a major source of concern, with a large body of literature surrounding the impacts of microplastic ingestion by biot...



Nitrous oxide, a powerful greenhouse gas, is on the rise from ocean dead zones

 The Conversation

Nitrous oxide is a potent greenhouse gas, 300 times more powerful than carbon dioxide. Global emissions of N₂O are on the rise as a result of human activities — and their impact on ocean ecosystems.



Sustainable futures over the next decade are rooted in soil science

Wiley Online Library

The importance of soils to society has gained increasing recognition over the past decade, with the potential to contribute to most of the United Nations' Sustainable Development Goals (SDGs). With unprecedented and



Greenhouse gas data deep dive reaches new level of 'reasonable and true': Developing county-level data of nitrogen fertilizer and manure inputs for corn production in the United States

Sciencedirect

Spatially-explicit data describing commercial nitrogen (N) fertilizer and animal manure inputs are needed to inform modeling and life cycle analysis o...



Do wildflowers help reduce runoff in roadside soils?

 Soils Matter, Get the Scoop!

blog discussing the benefits of wildflowers to reduce runoff in roadside soils



Revealing the impact of 70 years of pesticide use on European soils: "Cocktails of pesticide residues in conventional and organic farming systems in Europe – Legacy of the past and turning point for the future"

Sciencedirect

Considering that pesticides have been used in Europe for over 70 years, a system for monitoring pesticide residues in EU soils and their effects on SO...



Ship coatings are the principal source of North Sea marine microplastics, finds study

 Europa

Much discarded plastic enters our oceans via pathways such as littering, drainage, sewage systems, and mismanaged disposal, and fragments to form 'microplastics' — particles of under 5 millimetres (mm) in size. A



2021 JUNE | 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.

ETH zürich

PhD position in "Sustainable peatland management by mapping, monitoring and modelling the Carbon cycle", Zurich, Switzerland

 Ethz

ETH Zurich (Switzerland) and the Joint Research Centre (JRC, Italy) of the European Commission are inviting applications for PhD positions through the Collaborative Doctoral Partnership (CDP) scheme.



Professor and Head of School of Natural Sciences, Massey University, Auckland, New Zealand

Nga

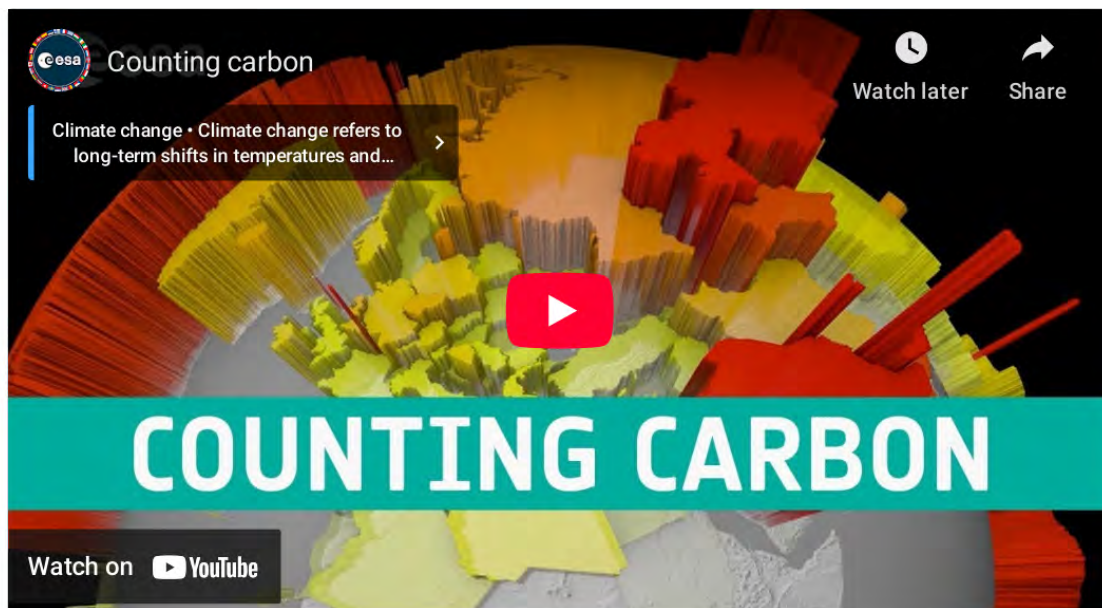
The College of Sciences at Massey University is seeking to appoint a senior academic (Professor) to lead the newly formed School of Natural Sciences.



Hiring Associate Research Fellow/Research Fellow, DSGD - Washington, DC, USA

Taleo

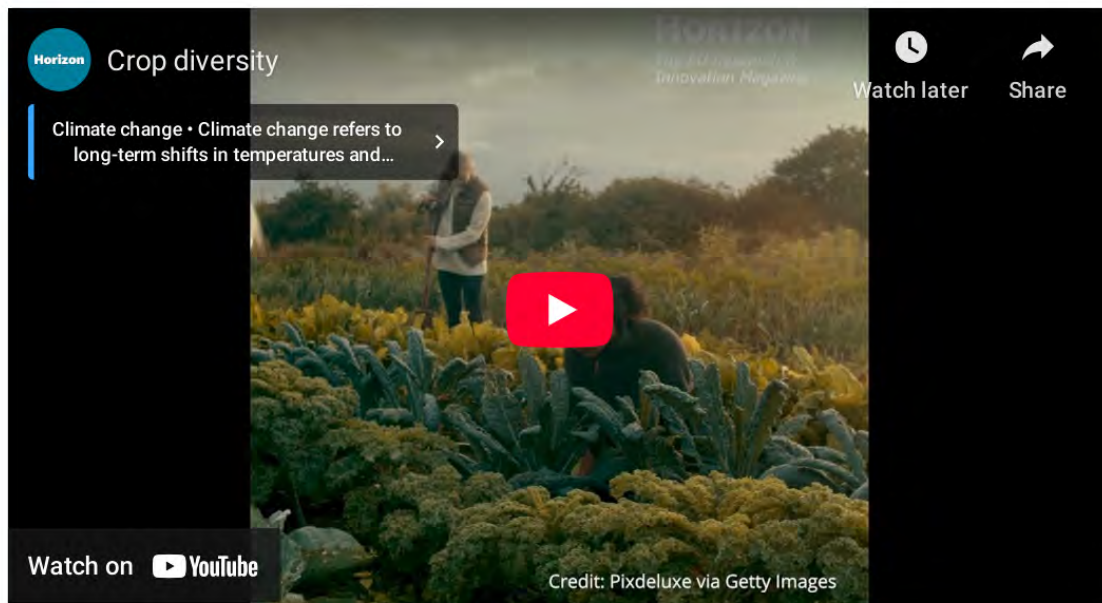
[View job details and apply now](#)



Counting carbon

YouTube

The Paris Agreement adopted a target for global warming not to exceed 1.5°C. This sets a limit on the additional carbon we can add to the atmosphere – the ca...



Crop diversity

YouTube

Farmers are only planting a fraction of existing food crops because they are reliable and consumers expect unvarying food – but diversity is crucial to ensur...

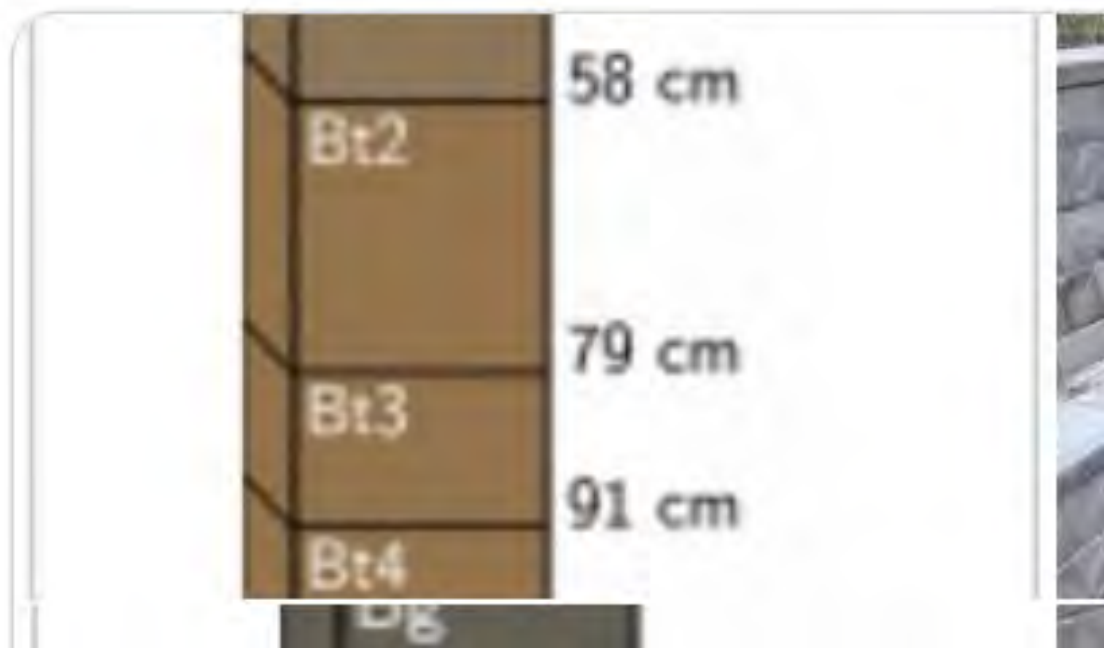


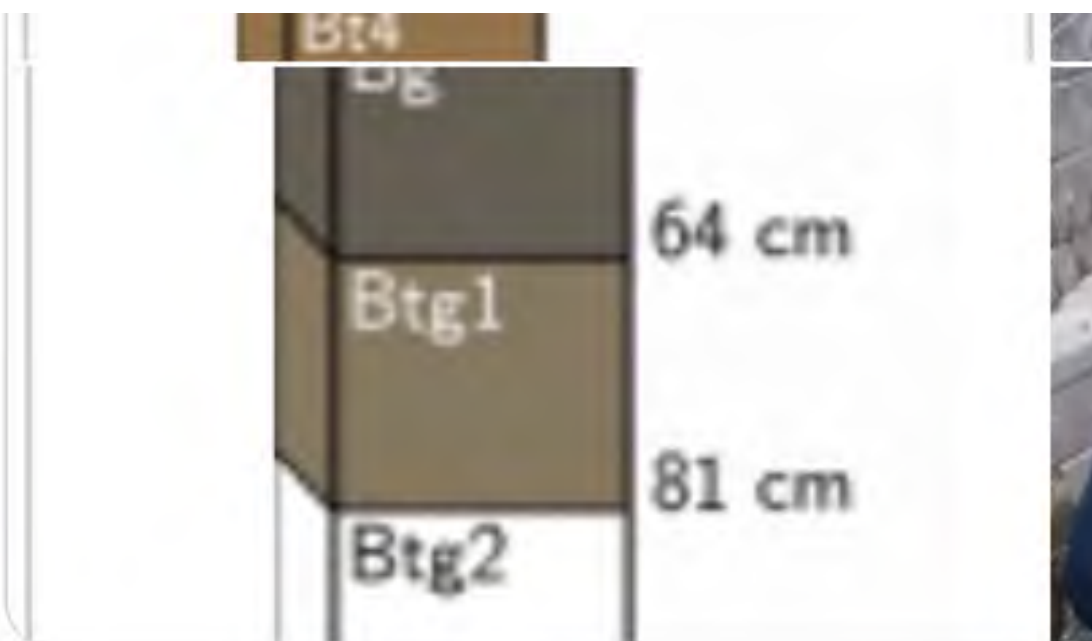
What is Soil (and Why is it Important)?: Crash Course Geography #17

YouTube

Soil brings together all four spheres of physical geography, and understanding soil composition is kind of like baking! So in today's episode, we're going to...















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