

...RETHINKING GROUND ENGINEERING FOR A LOW-CARBON FUTURE

My Experience with an EU-H2020-MSCA-ITN Project

Emmanuel Salifu PhD CEng Research Associate









How I got involved....



My MSc Supervisor



TERRE

2014

MSc Environmental Engineering Strathclyde, UK

TETFund - Federal Government of Nigeria

2016

Dual-PhD

University of Naples Federico II, Italy

University of Strathclyde, Glasgow UK



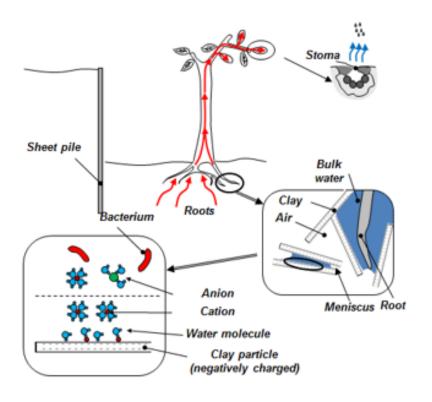
terre-etn.com

Training Engineers and Researchers to Rethink geotechnical Engineering for a low carbon future

€ 3.9m. H2020-MSCA-ITN-2015. Coordinator: Professor Alessandro Tarantino



Cross-sectoral team of 14 European project partners



...towards a *nature-centric* scientific approach to ground engineering

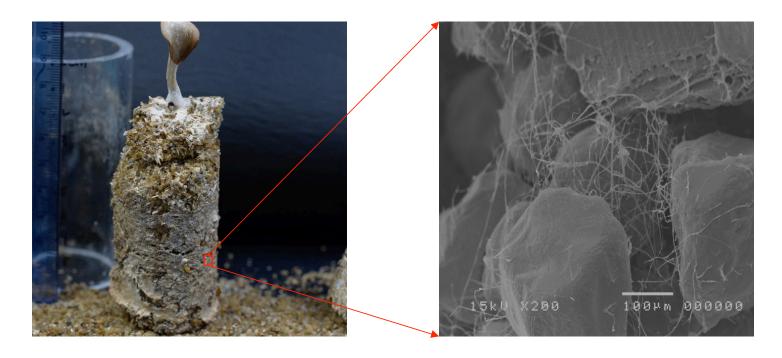
15 Early-Stage Researchers







My research topic: Engineering Fungal-mycelia for Soil Improvement



Novel nature-based engineering technique with potential applications in:

- Soil erosion mitigation
- Minimising risks of shallow landslides
- Reversing desertification
- Bioremediation of contaminated lands

Challenges/Difficulties & Lessons Learnt



Travel VISA requirements/ applications



Managing a novel, interdisciplinary & ambitious research + outreach

Resilience! Soft skills



Institutional
Bureaucracies in
Cotutelle
Agreement & lots
of Admin tasks.

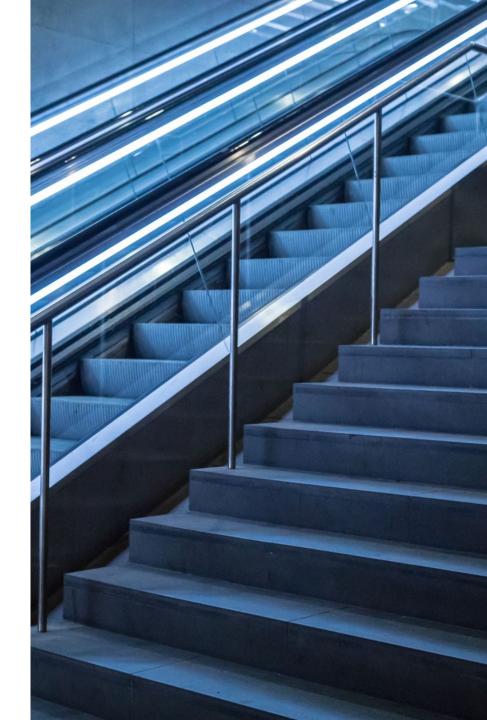
Time/people management

I applied for 7 different visas!



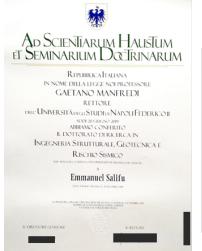


Innovation & Creativity | Employability & Leadership.



Well-structured Academic Training Programme:

- Career development planning
- Research project management skills
- Doctoral Training Schools & Workshops
- Cutting-edge research + publications/outputs
- Award of a Dual-PhD











Direct connection to a closely-knit, diverse, multicultural, and multidisciplinary team

- Collaborations, access to wider network of networks
- Job opportunities and offers
- Continuous peer support and mentorship
- Global recognition, visibility, reputation







Acquired lots of soft/transferable skills, competencies, exposure!

- Communication: technical/non-technical; oral/written
- Teamwork & Leadership: outreach programmes
- Organisational/administrative skills
- Supervision of younger researchers
- Professional and global competencies: e.g., Award of Chartered Engineer CEng, UK.

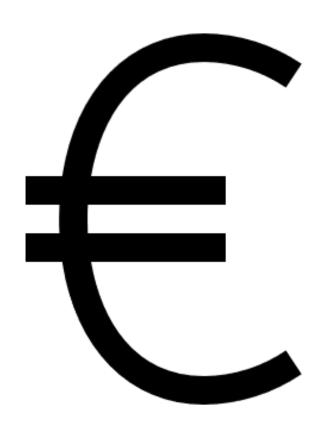






Excellent funding!

- Salary was great, plus mobility & family allowances
- Fund for research, training, networking, travels/subsistence, lab consumables, equipment...
- Visa fee refunds



Membership of the Marie Curie Alumni Association, MCAA

- Huge professional network: >19000 global researchers from 150 nationalities
- Opportunity to gain leadership skills, service to community, contribute to policy
- Access to micro-grants





Get INvolved!





Horizon Europe

