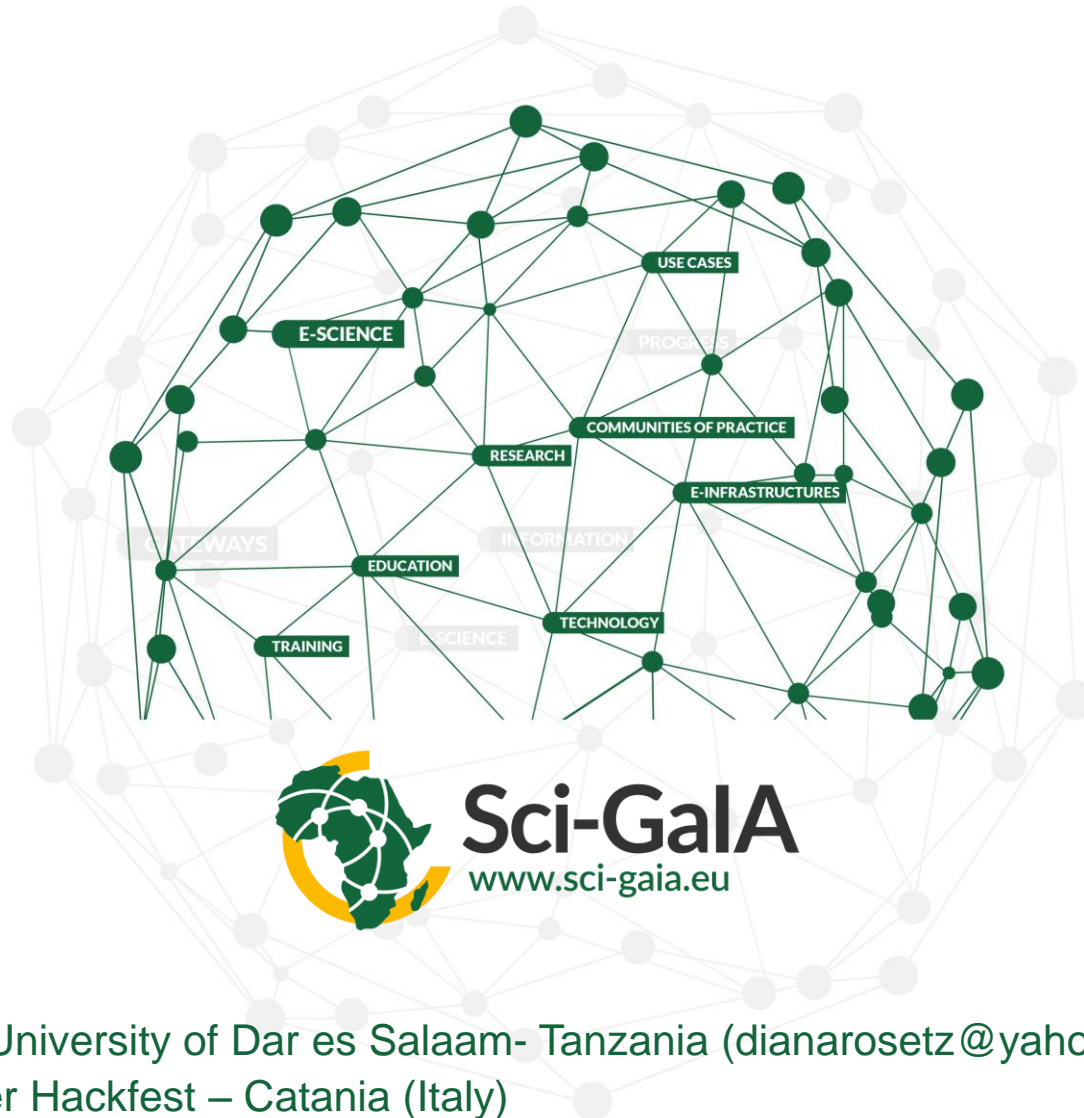


# Technology Transfer Alliance Collaboration Platform



Diana Rwegasira– University of Dar es Salaam- Tanzania (dianarosetz@yahoo.com)  
e-Research Summer Hackfest – Catania (Italy)



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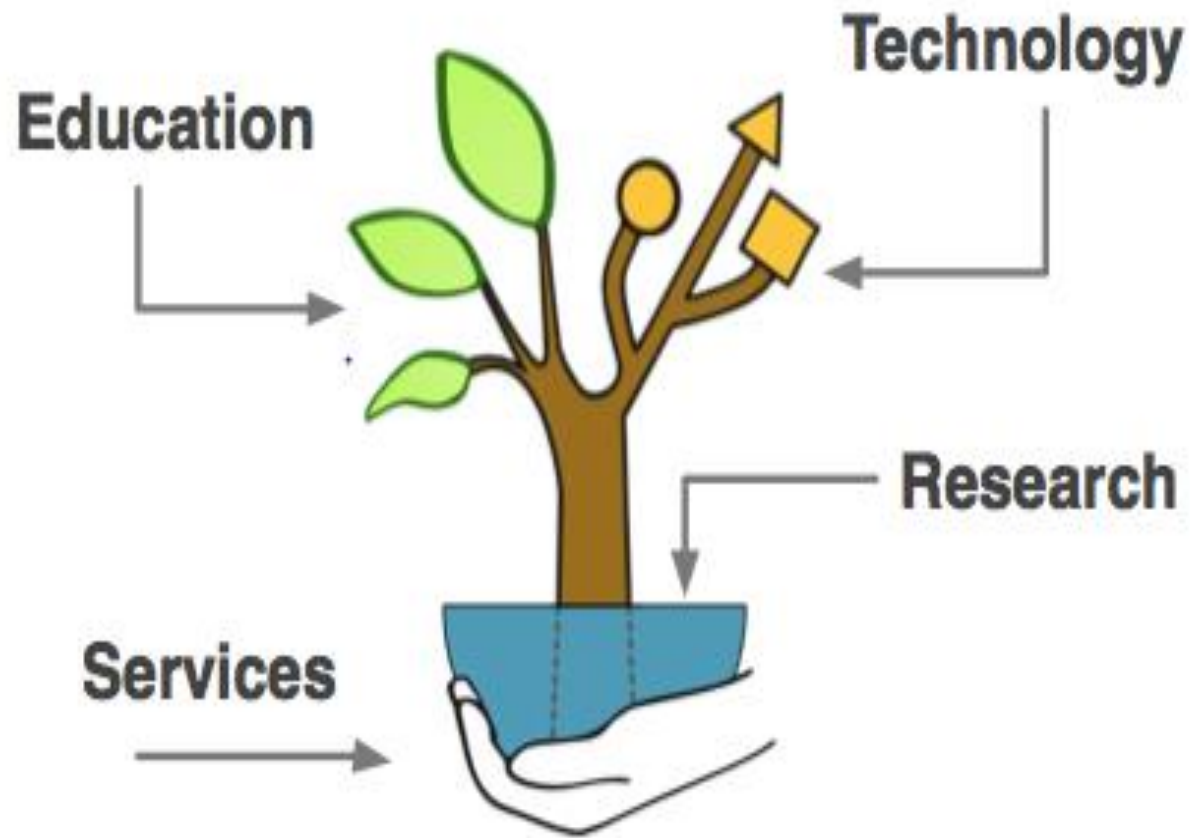
## Outline

- Introduction
  - What?
  - Why?
  - When?
  - Who?
- Motivation of the proposal
- Implementation strategies

# Overview

- The TTA is a non-for-profit network of universities interested in:
  - ✓ Having an impact on development of the societies in which they exist;
  - ✓ Problem-oriented, project-driven learning with a focus on innovation and entrepreneurship;
  - ✓ Offering students and faculty members opportunities to contribute to important projects for academic credit.
- The TTA supports members in:
  - ✓ Internal Academic development of pedagogical models and examination methods for problem oriented, project-driven learning (*Guidelines to Challenge Driven education*);
  - ✓ External networking with external stakeholders to define, fund and implement projects

## The TTA Vision



# Motivation of the Idea/Proposal

- Intended to be a web-based platform containing an integrated set of tools, applications, data repositories accessed via a portal: the TTA Portal.
- support collaboration and training to foster education among the partners, sharing of all sorts of resources and dissemination of results.
- Each partner to submit content i.e: *project proposals, project documents, news update, information sharing, video, etc* via content lists.
- Content management system

# Implementations

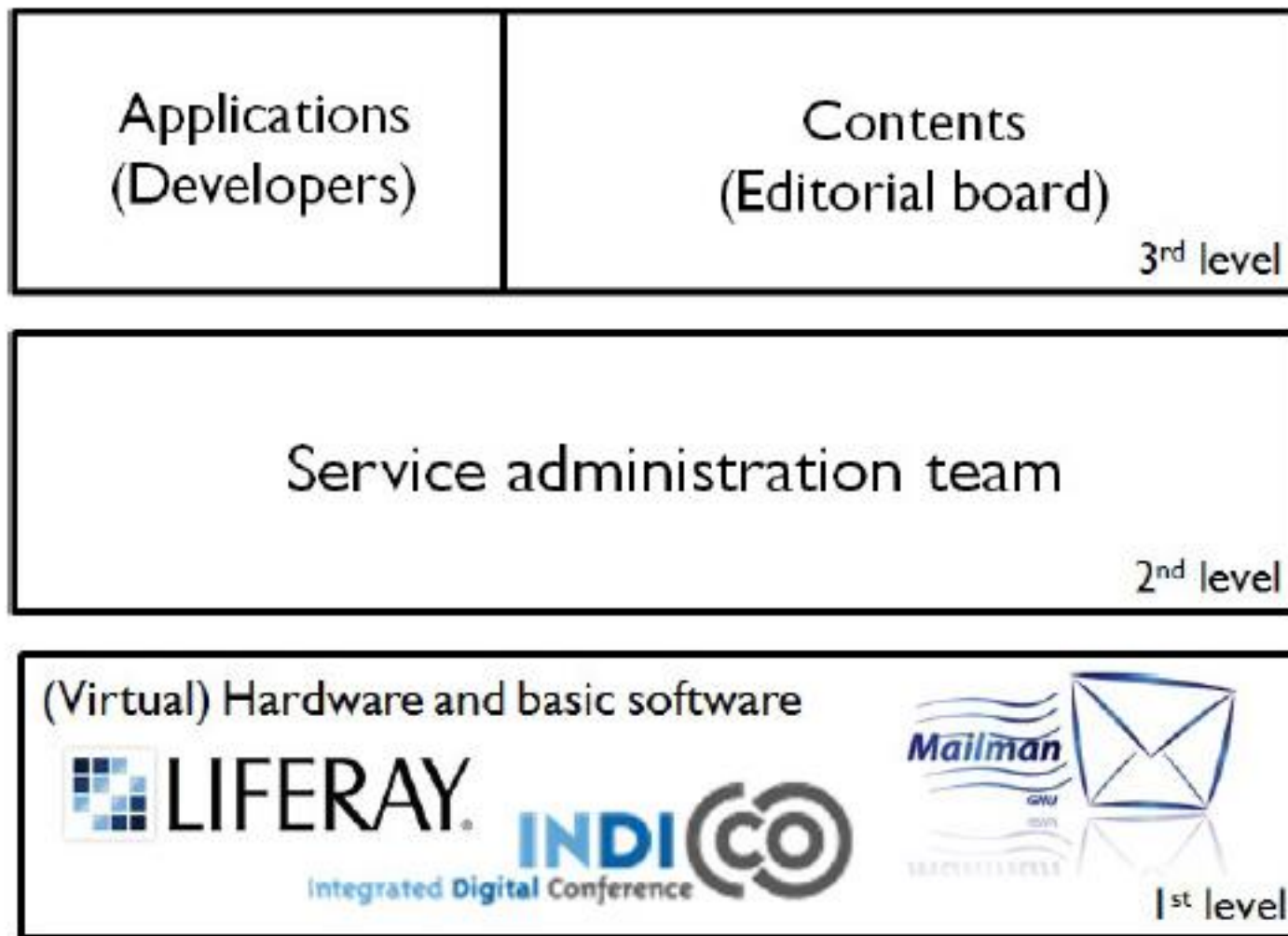


Figure 1. Logical schema of the TTA collaboration platform

# Implementations

- **Layer 1: Hardware Infrastructure**

- ✓ A server installed with the award-winner Liferay ([www.liferay.com](http://www.liferay.com)) enterprise portal framework and the Catania Science Gateway Framework ([www.catania-science-gateways.it](http://www.catania-science-gateways.it)) which allows to seamlessly interface Distributed Computing Infrastructures (Grid, Clouds, HPC dedicated clusters, etc.), both in Africa and in the rest of the world;
- ✓ A server installed with the event management software Indico (<http://indico-software.org/>) which is a web application to schedule and organize events, from simple lectures to complex meetings, workshops and conferences with sessions and contributions; the tool also includes an advanced user delegation mechanism, allow paper reviewing, archival of conference information and electronic proceedings.
- ✓ A server installed with the “de facto” standard mailing list manager Mailman ([www.list.org](http://www.list.org)).

# Implementations

- Layer 2: services' administration team
- Layer 3: editorial board of the Portal and by the developers of applications to be integrated in the Science Gateway,



## Documents which exists...

- <http://ttaportal.org> or <https://tta-portal.misc.kth.se>
- <https://oar.sci-gaia.eu/record/116?ln=en>
- <https://archive.ssvi.kth.se/csd2010/www.tslab.ssvi.kth.se/csd/projects/1031351/index.html>
- <https://www.facebook.com/Technology-Transfer-Alliance-331173720255996/>
- <http://kth.divaportal.org/smash/record.jsf?pid=diva2%3A463001&dswid=-1809>
- <https://www.kth.se/en/alumni/nyheter/nyhetsartiklar/stronger-international-ties-with-africa-1.303412>
- <http://spidercenter.org/partners/collaborations/technology-transfer-alliance>

## Implementation strategy 1

- 2 curricula already developed and approved by the Senate at UDSM based on Smart Grid Project.
  - Msc (25 students)
  - PhD (8 students)
- Two groups needed:
  - iGrid and
  - one related to the deployment of wimea-ict weather stations.

## Implementation strategy 2

### Open Science for education

- Impact of concepts like Science Gateways and Open Science on Teaching and Learning:
  - Open Data, Open Access, Open Educational Resources
- Impact of open innovation and co-creation/co-crafting to learning
  - LivingLabs, campus based OpenLabs and Innovation and Business creation hubs, innovation ecosystems
  - Innovation and entrepreneurial education models

## Implementation strategy

- Invenio Tool
  - Searching,
  - Downloading
  - Uploading
- OneData Tool
  - Sharing and group system:
    - Team-sharing
    - Cross-community data sharing
    - Instant and ad-hoc data sharing
- FutureGateway

## Summary and conclusions

- TTA to be presented in September ,Dar es salaam

# Thank you!

[sci-gaia.eu](http://sci-gaia.eu)

[info@sci-gaia.eu](mailto:info@sci-gaia.eu)

