Technology Transfer Alliance Collaboration Platform

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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

Education

Technology

Research

Services
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) enterprise portal framework and the Catania Science Gateway Framework (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).
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://www.facebook.com/Technology-Transfer-Alliance-331173720255996/
- 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!

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