Technology Transfer Alliance Collaboration Platform

Diana Rwegasira– UDSM (Assistant Lecturer) & KTH (PhD Student) (dianasr@kth.se)
A.Kondoro, A.Kelati, V.Taajamaa and H.Tenhunen
Place: CSIR, PRETORIA, S.A
Outline

1. Introduction
   • Overview
   • Motivation of the use case
2. Design and Implementation
3. Applications and Outcomes
4. Conclusion
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
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
Implementation of the Idea/Proposal

- Applications (Developers)
- Contents (Editorial board)

Service administration team

(Virtual) Hardware and basic software

LIFERAY
INDICO
Mailman
Integrated Digital Conference

Sci-GaIA
www.sci-gaia.eu
Implementation: 1st Layer

- The evolution of the Catania Science Gateway Framework (CSGF) → FutureGateway API
  - Serves Community
  - Contains tools, applications and data
  - Provides GUI (Web, desktop and mobile applications)

- Tool Installed:
  - FG-API, FG-Portal, OAR

- The portal was created in the VM with the latest version of Liferay (v7.0.1 GA2)

https://www.ttaportal.org/
Implementation: 2nd and 3rd Layer

- Copying the content to new portal
- Customization of the portal
- Adding new content
- DOI assignment to the documents
Implementation: 2\textsuperscript{nd} and 3\textsuperscript{rd} Layer


- Menu, links, Contact Form, Email list

- Contents stored in the OAR to their ORCID profiles

- Generate content to be used for Msc and PhD students for CDE (Challenge Driven Education)
<table>
<thead>
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<th>Menu</th>
<th>Link Created</th>
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| 1 Contact -Membership & Partnership | https://oar.sci-gaia.eu/record/205  
| | https://oar.sci-gaia.eu/record/206 |
| | https://www.ttaportal.org/tta-conference |
| 4 contents stored in the OAR to their ORCID profiles | https://orcid.org/my-orcid |
| 5 Projects available -WimeaICT, iGrid, etc | https://www.ttaportal.org/projects |
| 6 Publications | https://www.ttaportal.org/publications |
| 7 Agenda -Creating the events and Workshops | https://agenda.ct.infn.it/category/124/ |
Application and Impact

The portal has been used by UDSM and KTH for coordinating PhD and Msc programmes based on Challenge Driven Education Course

- Creating Agenda for the three workshops done at Kijitonyama and CDE
- Publishing the activities found at Mikocheni Distribution site
- Publishing activities done at CDE workshop
# 3rd Workshop on Challenge Driven Education

**Chair:** Nerey Mvungi (Professor)

**Date:** Saturday, 18 February 2017  
**Time:** 08:30 to 18:00 (Etc/GMT+3)  
**Location:** Kijitonyama

**Description:** The Workshop involves PhD and MSc students, Instructors and stakeholders from TANESCO to explore the problems facing the electric sector.

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30 - 09:00</td>
<td>Registration</td>
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<tr>
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<td><strong>Convener:</strong> Dr. Suzan Lujara</td>
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<td>09:00 - 09:10</td>
<td>Opening Remarks</td>
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<td></td>
<td><strong>Convener:</strong> Dr. Honest Kimaro</td>
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| 09:10 - 09:40 | Overall challenge for PhD and process  
*The Overall challenge and process used in identification of the challenge and task assignment*  
**Conveners:** Mr. Daudi Mnyanghwal, Mr. Godfrey Chugulu |
| 09:40 - 10:00 | Discussion                                                                                     |
| 10:00 - 10:20 | Challenge for MSc students and process  
*The Challenge for MSc students and process for identification and assigned tasks*  
**Convener:** Mr. Amani Musomba |
| 10:20 - 10:30 | Discussion                                                                                     |
This workshop is co-organised by KTH, DIT, COSTECH, Sci-GaIA and will be held in COSTECH, Dar es Salaam, Tanzania.

Overview

Global challenges are often materialized locally and render solutions in a local context. In good circumstances, they may be scaled up into global solutions. The lack of investments in certain areas or lack of certain infrastructure in emerging and developing economies offers unique opportunities to explore entirely different solutions to problems that are beyond the horizon of our present imagination. They could thrive and develop rapidly in the fertile innovation ecosystem that is provided by universities and their interface to society. Thus, from a university perspective, connecting research, education, and innovation to an effective knowledge triangle is of paramount importance.

The new approach consists of three fundamental concepts forming the pillars for activities and actions:
What we have....

TTA
The Technology Transfer Alliance is an association of universities that share a pedagogical model for universities to collaboratively train researchers based on a common set of rules. TTA provides education through project-oriented project-driven education.
Publications TTA

Search 2 records for:

any field  ▼

Search Tips :: Advanced Search

Latest additions:

2016-07-08 09:37  **TTA Partnership Agreement** / The Technology Transfer Alliance [PUBLICATIONSTTA-2016-003]
Technology Transfer Alliance (TTA) is a non-profit association of higher education institutions interested in providing a project-driven pedagogical model, including examination methods and reward systems. [...] 10.15169/sci-gaia:1467970532.25

Resource: [DOC];
Detailed record - Similar records

2016-07-08 09:35  **TTA Membership Agreement** / The Technology Transfer Alliance [PUBLICATIONSTTA-2016-002]
Technology Transfer Alliance (TTA) is a non-profit association of higher education institutions interested in providing a project-driven pedagogical model, including examination methods and reward systems. [...] 10.15169/sci-gaia:1467970286.0

Resource: [DOC];
Detailed record - Similar records
Summary and conclusions

Semester II study will base on:

1. Educational Resources and Students Engagement in the portal (Open labs and tools from KTH).
2. Broadcasting of the students ongoing projects
3. Publication of the results to the portal
Many thanks to EU Sci-GAia with project number GA 654237

Thank you!

sci-gaia.eu
info@sci-gaia.eu