



Tariq Zaman, Associate Fellow (MCSC)

Civic Technology Design

Insights from South-South Research Collaboration

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1st International Conference on Electrical, Communication and
Computer Engineering (ICECCE-2019)

July 25, 2019 Swat Serina Hotel Pakistan



Cornell University



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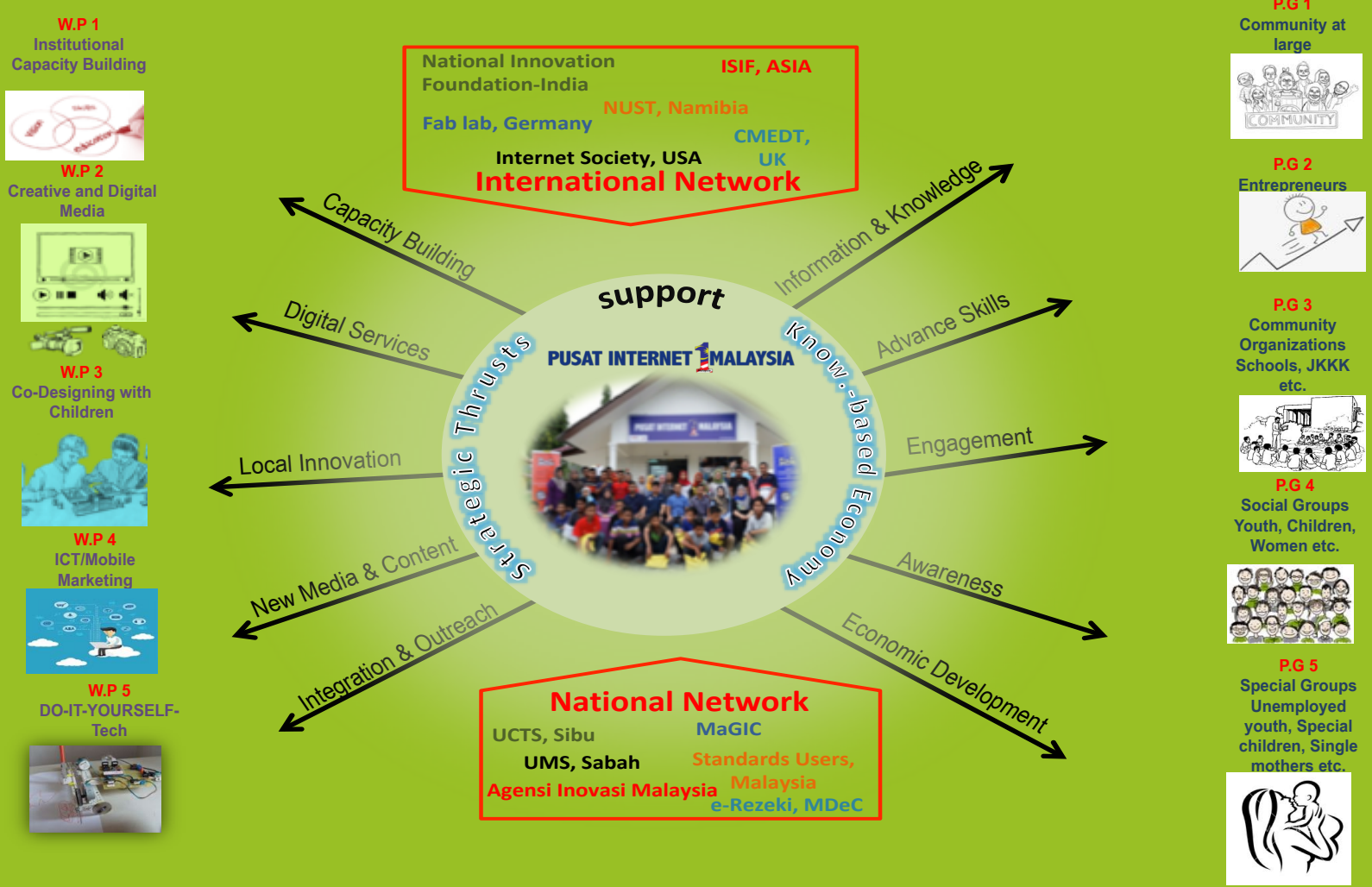
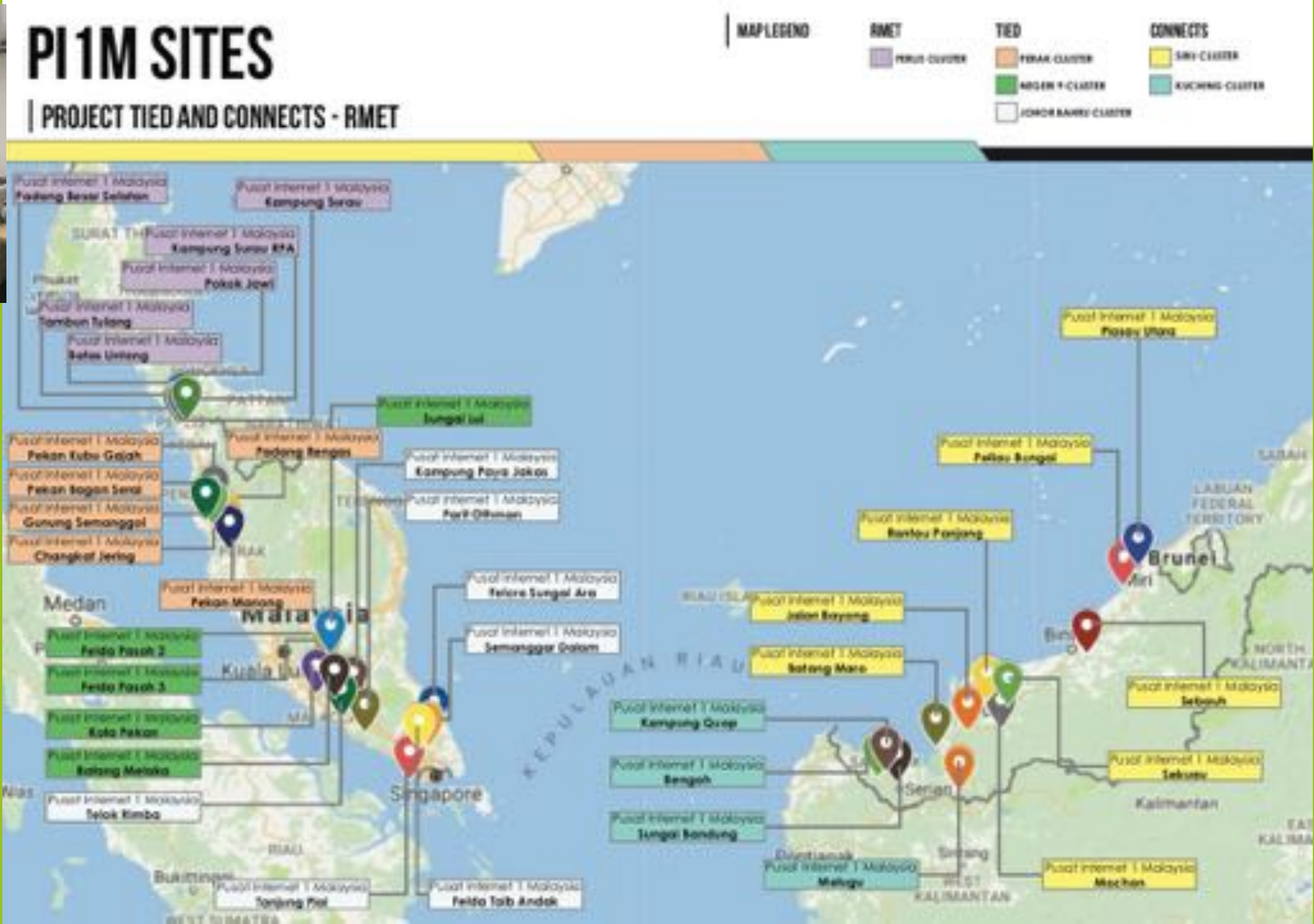


Technology Touching Lives

**Trans-disciplinary
Translational
Community-based
Research Engagement**

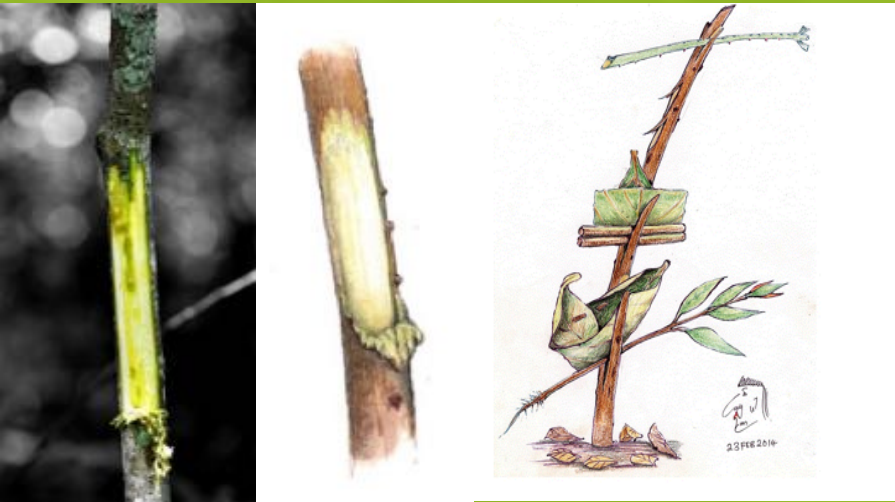


Technopreneurship, Innovation and Enterprise Development (TIED)



Oroo' Language Digitization

Documentation
Oroo' Treasure Hunt
Oroo' Tangibles
PO-SMS



Takeaway: Research making an impact

Research

**Dev't Agents & ICT
Activists**

Dev't & Testing
Hypothesis

Publications

Citations

Awards

Development & Commercialisation

**Application &
Replication in other
Sites**

Techniques Tools

Training

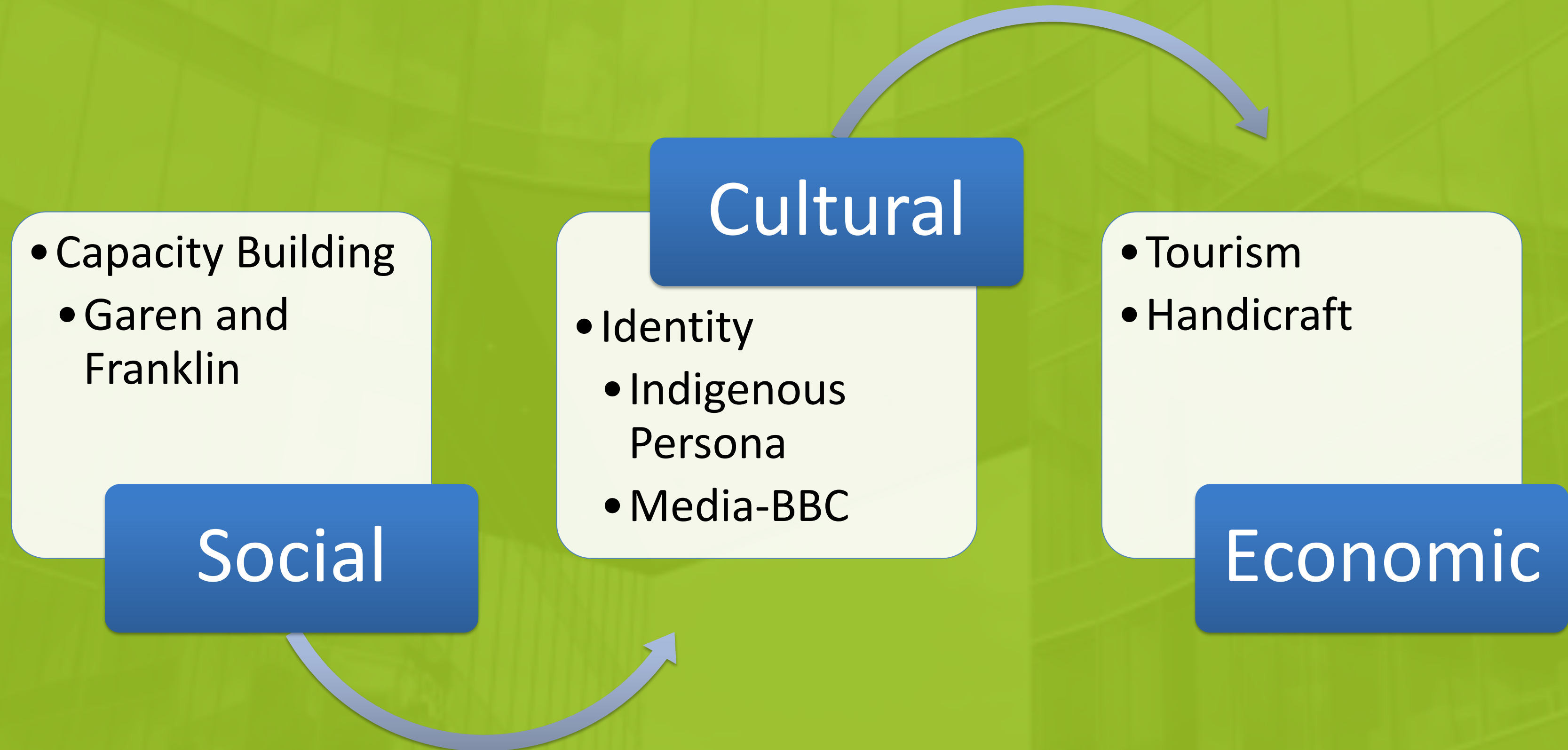
Standardisation

Policy Research & Development

Success stories to
influence Policy
Makers

Ecosystem: Multi-
stakeholder trans-
disciplinary

Takeaway: Research Collaboration for win-win situation



Takeaway: Research Collaboration for win-win situation

COMMUNITY-RESEARCHER ENGAGEMENT

Just a matter of following protocols?

FRIDAY OCTOBER 21 | 12:00 - 1:30PM | STOCKING HALL M01

Researchers increasingly navigate unfamiliar terrain to communicate with indigenous communities. Their endeavors involve dealing with socio-cultural, socio-political, and socio-economic issues with limited time, resources and differing protocols. These can produce decisions that increase distrust of outsiders, resistance or rejection of solutions or interactions that can have long-term negative local impacts. How can we think of the research process differently?

In this session, we will share our experiences of designing interaction protocols, critical cases, approaches and opportunities in collaborating with/in research and indigenous communities.

GAREN JENGAN



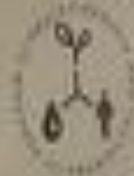
An advocate for indigenized and controlled development, Garen is a respected member of the Penan community from Long Lamat, Upper Baram, Sarawak, Malaysia. He was born in the jungle in the 1950s during the nomadic life of his parents. After schooling, he worked in Miri, the nearest town, and returned back to college in 2006. Since 2007, he has been a local champion and liaison between University Malaysia Sarawak and the Long Lamat community in research and development projects such as the Hamlet Programme, Microhydro, e-Library, Telecentre, Indigenous Knowledge Management and Service Learning.

TARIQ ZAMAN PH.D.



Tariq Zaman is a lecturer of Information Systems in University Malaysia Sarawak (UNIMAS) and attached as a research fellow with the Institute of Social Informatics and Technological Innovations (ISITI) UNIMAS. Currently, he is leading three international research projects and coordinating collaboration of post-graduate students and researchers from different countries and disciplines in the areas of "Community-based Co-design", "Community Engagement" and "Service Learning". His research focus is directed towards understanding the social and cultural framework of indigenous and rural communities, cross-cultural issues in human-computer interaction (HCI), indigenous knowledge preservation and digitalization and community-based co-designing of ICTs.

The Global Citizenship and Sustainability Program seeks to foster engaged research, cross-cultural learning experiences, student leadership and social responsibility. The program fosters reciprocal learning, benefiting students, community partners and participants in Southeast Asia.



Takeaway: Research Collaboration for win-win situation

86 BEATRICE CLAYRE

between the Brunei border and the Kelabit Highlands (Clayre, B. 1970; Needham 1972:176-180). In 1967, together with Marjorie Britza, I prepared an outline grammar of Penan, which is currently being revised for publication in the *Sarawak Museum Journal*. I am particularly grateful to **Garen Jengan**, originally of Long Lamai, for his help with the language.

Google Scholar

garen jengan

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[Reviving an indigenous rainforest sign language: digital Oroo'adventure game](#) [PDF] academia.edu
..., [AY.Yeo, LC Ting, G Jengan - Proceedings of the ...](#), 2015 - dl.acm.org

The extinction of indigenous languages, which convey cultural worldviews, remains a continued threat to cultural heritage preservation. The nomadic Penans in the rainforests of

FiBL

Sus
HillRice

Tropentag 2018
Ghent



Findings of an Upland Rice Farming Study Using a Participatory Mapping Approach in Sarawak (Malaysia)

Alexander Hollaus¹, Garen Jengan², Rainer Weisshaidinger¹

¹ Research Institute of Organic Agriculture, Austria; ² Community of Long Lamai, Malaysia

Takeaway: Design in the wild





**IPID-DoST
Postgraduate Strand
ICECCE-2019**

**Organized by
International Network for
Postgraduate Students in the
area of ICT4D (IPID)
and
Directorate of Science and Technology
(DoST)**

July 25, 2019

**Venue: Wazir House, Swat Sarena Hotel,
Khyber Pakhtunkhwa, Pakistan**

**Thank
You**

LEARNING WITH THRIVING COMMUNITIES

**WORKSHOP ON
TRANSDISCIPLINARY
APPROACH FOR
COMMUNITY-BASED
RESEARCH ENGAGEMENT**

*Facilitator: Dr Tariq Zaman
Associate Professor, CECOS University of I.T. &
Emerging Sciences, Peshawar*

Save the Dates

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