10th APEC-Tsukuba International Conference

**Innovation of Mathematics Education Through Lesson Study.**

**Challenges on Energy Efficiency on STEM and Cross-border Education.**

February 11–15, 2016

University of Tsukuba, Tokyo, Japan

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**STEM and Cross-Border Education ACTION PLAN**

**for Papua New Guinea**

<table>
<thead>
<tr>
<th>Steven Hupigo Tandale, Department of Education, Papua New Guinea</th>
<th>Fifaia Matakano, (PhD), Higher Education, Research, Science &amp; Technology, Papua New Guinea</th>
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</thead>
</table>
MAP OF Papua New Guinea
STEM and Cross-Border Education

ACTION PLAN

Our first task is to do policy submission to DoE and seek Board of Studies Approval.

• A Policy submission will be drafted for TOP Management Team (TMT) of Department of Education & (DoE) & Department of Higher Education, Research, Science, & Technology, (DHERST). Feb/March, 2016

• Seek approval from Curriculum Board of Studies, (BOS). March 2016
Capture in the Curriculum Reform

• Captured STEM Contents and concepts
  Standard-Based Curriculum
    - Primary & Secondary School Level

Throughout 2016
STEM and Cross-Border Education Education

ACTION PLAN

Curriculum Framework to capture STEM

• Content on STEM

• Identify the Key Learning Area for STEM,

• Identify the Knowledge, Skills, Attitudes + Values

• Identify the Content Standards

Throughout 2016
## Curriculum Framework to capture STEM Content on STEM

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<tr>
<th>Key Learning Area</th>
<th>Elementary</th>
<th>Lower Primary</th>
<th>Upper Primary</th>
<th>Lower Secondary</th>
<th>Upper Secondary</th>
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<td>Engineering</td>
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<td>To be captured at the Tertiary Institutions &amp; TVET Education</td>
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</table>
Create **Awareness and Discussions** within & across:

- Schools, districts, provinces & regions
- Teacher Training Institution
- TVET Institutions
- Other open & Flexible Learning institutions

- **Throughout 2016**
STEM and Cross-Border Education

ACTION PLAN

At APEC Economy level,
We have started communications with the Malaysia through Mr. Pedro Montecillo Jr and will maintain that link.

Others willing to assist & share ideas can Contact:

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Throughout 2016 .... onwards
EM TASOL... TANKIU BADA HEREA