AIMS approach to Curriculum Design

Prof. Aissa Wade
Penn State University & AIMS-Senegal

MS4SSA Conference: May 15-16, 2017,
Worcester Polytechnic Institute, USA
AIMS Methodology

1. TTIs augment and overlay the national curriculum.

2. Stakeholder consultation to have evidence based information on the gaps in the design, implementation and assessment of the curriculum.

3. Design, implementation and measurement is based on the relevance of learning outcomes.

1. Interactive subject pedagogy
AIMS Methodology

5. School based, peer facilitated: Plan - Teach - Reflect.

6. Is based on school structures.

7. Is broken down into an arsenal of practical resources that teachers can easily refer to in the delivery of lessons (teachers guide, teacher’s resource guide etc).

8. Community of practice resources to promote peer learning.

9. Includes the creation of an enabling environment.

10. A gender lens.
Teaching teachers to engage the learners with practical resources
Including our alumni at the residential courses
Engaging with a learner-centred activity
Tools


Training of Trainers manual, Teachers guide, Teaching resources handbook
Q & A
Thank you!
### TEACHING & LEARNING

#### WHAT IS CHANGING?

<table>
<thead>
<tr>
<th>How education is delivered</th>
<th>What it used to be</th>
<th>What AIMS is working on</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Uniform Learning (Mass Production)</td>
<td>Customized Learning – Personalization</td>
</tr>
<tr>
<td>Sources of Knowledge</td>
<td>Teacher as the Expert</td>
<td>Diverse Knowledge Sources</td>
</tr>
<tr>
<td>How learners are assessed</td>
<td>Standardized Assessment</td>
<td>Specialized Assessment</td>
</tr>
<tr>
<td>What empowers learners</td>
<td>Knowledge in the head</td>
<td>Reliance of outside sources</td>
</tr>
<tr>
<td>Curriculum objectives</td>
<td>Coverage</td>
<td>Knowledge explosion – learning how to LEARN.</td>
</tr>
<tr>
<td>How learners access knowledge</td>
<td>Learning by acquisition</td>
<td>Learning by doing</td>
</tr>
<tr>
<td>Education ideology</td>
<td>Just-in-case learning</td>
<td>Just-in-time learning</td>
</tr>
</tbody>
</table>
TECHNOLOGY IN MATHEMATICS

**Aspirations...**

**e-Learning**
Learner-driven access to education content

**Interactive Distance Learning**
Tutor driven delivery of education content over long distances
- Rwanda SMART Classrooms
- Cameroon Simulation labs
- South Africa

**Mobile Learning**
Lean education content without the need for classrooms

AIMS seeks to partner with GESCI (http://gesci.org/)

**e-Collaboration**
Learning together by working together across distances