

MS4SSA Rwanda Regional Node Implementation Plan



An initiative to improve mathematics
and science for Sub-Saharan Africa

Outline

1. **Country context**
2. **Affiliation to the node**
3. **Phases of implementation**
4. **Support requested**
5. **Budget**

Role of a regional node

- Train teachers of Mathematics and Science in the country hosting a regional node
- Implement the MS4SSA program in a large sample of schools in the host country and evaluate the impact of the program to assess whether the program should be rolled out to more schools
- Train teachers of Mathematics and Science teachers from other countries in Sub Saharan Africa, both at the regional node and in-country
- Support the capacity development of teacher training institutions in other countries in all aspects relevant to strengthening mathematics and science teaching in those countries
- Collaborate with other regional nodes and the MS4SSA program (WPI and NJCTL) in order to share and disseminate good practice (e.g. role of advisors in supporting teachers in the region)
- Sharing tools for monitoring and evaluation.

1. Country context

Strong Government Support for STEM

Primary & Secondary: One Laptop per child (OLPC) in Primary schools. A similar program is exported to secondary schools and University

University:

- ACEITLMS+ Other 3 centers of excellence supported of the World Bank
- AIMS-Rwanda
- Carnegie Mellon University – Rwanda Campus
- ICTP –East African Center for Fundamental Research

ACEITLMS will host the MS4SSA regional node



HE President of Rwanda observing activities in a classroom

2. Affiliation to the Rwanda node

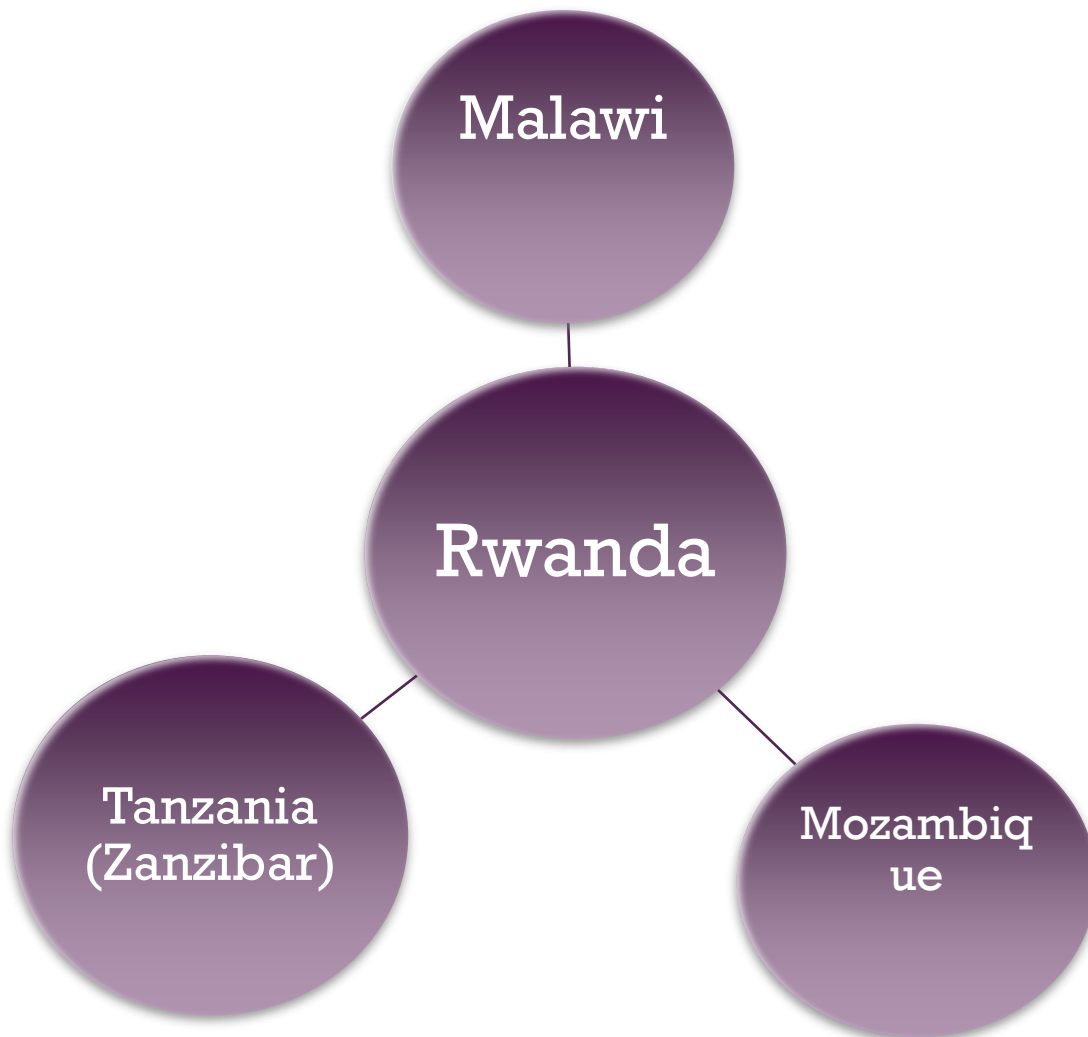
- ⊙ **Host Institution:** University of Rwanda/
College of Education
(hosted in the building
of **ACEITLMS**)
- ⊙ **City:** Capital city –
Kigali
- ⊙ **Country:** Rwanda



University of Rwanda – College of
Education

2. Affiliation to the node (cont.)

Current country members

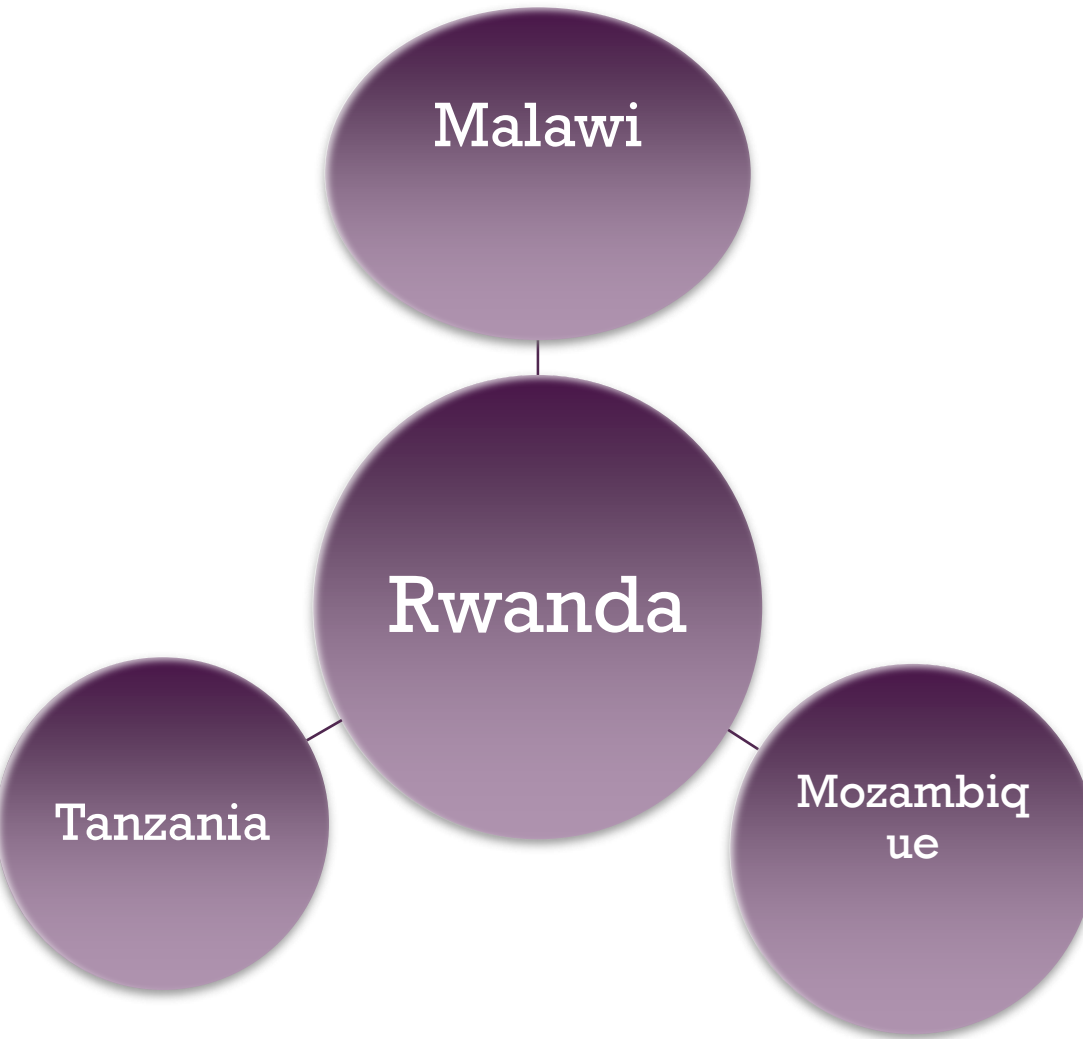


Node for Central, Eastern and Southern Africa

The node will expand in the future

1. Affiliation to the node (cont.)

Focal points



❑ Rwanda

Pheneas Nkundabakura
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❑ Malawi

Dorthy Nampota
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❑ Mozambique

Francisco Januario
Januariofm90@gmail.com

❑ Tanzania

Hussein Ramadhan
husseiniddi@gmail.com

2. Phases of Implementation

Two phases: Phase I and Phase II

Phase I:

1. **Train a cohort of trainers at the node**
 - **Select top 5 as Regional Trainers**
2. **Create a platform for communication**
 - **Email list, website, video conference, etc**
3. **Strengthen capacity of Regional Trainers**
 - **Participate in other trainings organised by NJCTL/WPI in other countries**

Phase I : **Train regional trainers**

- Some of our staff of the College of Education will be part of the first cohort of training (backup):



Dr Alphonse
Uworwabayeho
Maths



Dr. Pheneas
Nkundabakura
Physics



Dr. Florian
Nsanganwimana
Biology



Dr. Edwidge
Kampire
Chemistry



Dr. Leon
Mugabo
Teach. Meth.

- AIMS –Rwanda will run the PMI
- ACEITLMS will run the PSI
- Members of the National curriculum development Unit (at REB) will be also involved in the training

Phase I : Train regional trainers (cont.)

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Training of 5 Regional ToTs on Maths, Physics, Chemistry, Biology, Pedagogy, ICT, Material Science, PBL, Learning, Robotics







When? Together with the first training in Rwanda country affiliated to the node are welcome to send their trainers (at their own expense)

What?

- NJCTL Modules: Grade 7-9 modules (2 weeks)
- WPI: Material science, PBL, Robotics (1 week)

Phase I: Platform of communication

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 Rwanda MS4SSA Regional Node   All changes saved in Drive   

QUESTIONSRESPONSES1

Information of country members collaborating with the Rwanda MS4SSA Regional node

The present form help to give a picture of your perception of how you intend to collaborate with the MS4SSA regional node which will be located in Rwanda. A regional node is expected to carry out the following activities under MS4SSA:

- (1) Train teachers of Mathematics and Science in the country hosting a regional node
- (2) Implement the MS4SSA program in a large sample of schools in the host country and evaluate the impact of the program to assess whether the program should be rolled out to more schools
- (3) Train teachers of Mathematics and Science teachers from other countries in Sub Saharan Africa, both at the regional node and in-country
- (4) Support the capacity development of teacher training institutions in other countries in all aspects relevant to strengthening mathematics and science teaching in those countries
- (5) Collaborate with other regional nodes and the MS4SSA program in order to share and disseminate good practice.

The MS4SSA is expected to provide capacity building and technical assistance to the regional node progressively and as soon it will be in order that it can carry its activities.

Phase Two (Starting 2019)

- **Intervention in countries of the region.**
 - **After the regional trainers are fully empowered**
 - **On request by countries**
 - **To be taken in charge by host countries**
- **Assessment and Evaluation at the regional level**
- **Other activities: intra-regional student competitions (e.g. Robotics)**

Support requested from MS4SSA

- Technical assistance from WPI/NJCTL during the ToT training.
- Additional material to be developed in case the alignment doesn't match perfectly
- Forms of Evaluation and assessment of MS4SSA
- Training Budget support (expenses to experts from NJCTL and WPI) during the training

Implementation timeline (2017-2019)

	Phase I	Phase II	
Quarter	2017	2018	2019
January- March			Countries training and follow-up
April- June		Participate in NJCTL/WPI-led training in other countries (PBL)	Countries training and follow-up
July- September	<ul style="list-style-type: none"> Communication platform 	Participate in NJCTL/WPI led training in other countries	Countries training and follow-up
October - December	<ul style="list-style-type: none"> Training of the Regional Trainers Selection of trainers 	Training the teachers in phase II in Rwanda	Countries training and follow-up

Budget 2017-2019

- The training of the first cohort of trainers and teachers in Rwanda will cost about more 200,000 USD (excluding the cost of experts from WPI and NJCTL).
- Countries are welcome to send their trainers to participate in the training (at their own expense).
- Countries inviting Regional Trainers will cover all the expenses (travel, accommodation, food and perdiem).

END

