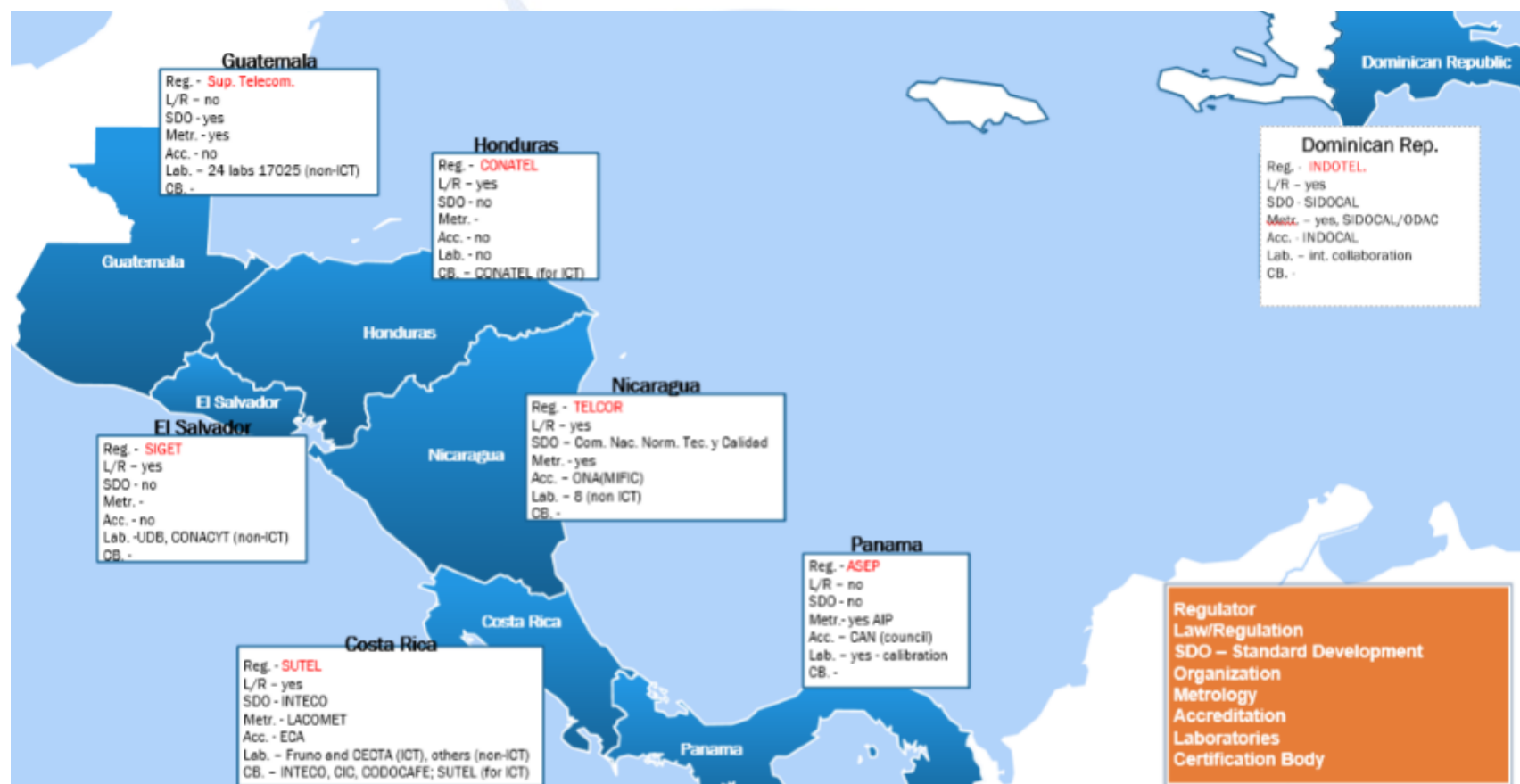


Standards capability in Central America and lessons learned from training programs

Sungnam CHOI

Program Director, CEABAD, Nicaragua

Status of ICT Standards Capabilities in CA



❖ Source : ITU Conformity and Interoperability Training for Americas Region, Campinas, Brazil, 2016

Status of ICT Standards Capability in CA

- All countries except for one country have a standard framework that specifies the technical requirements for the import and distribution of ICT products and services in their jurisdictions
- Most countries have also adopted a wide range of conformity assessment. Some countries have their own accreditation body which is in accordance with ISO / IEC 17011
- Most countries have laws on metrology and a national institute for metrology
- With respect to certification, some countries have indicated that their telecommunications regulator has such responsibility

❖ Source : ITU Conformity and Interoperability Training for Americas Region, Campinas, Brazil, 2016

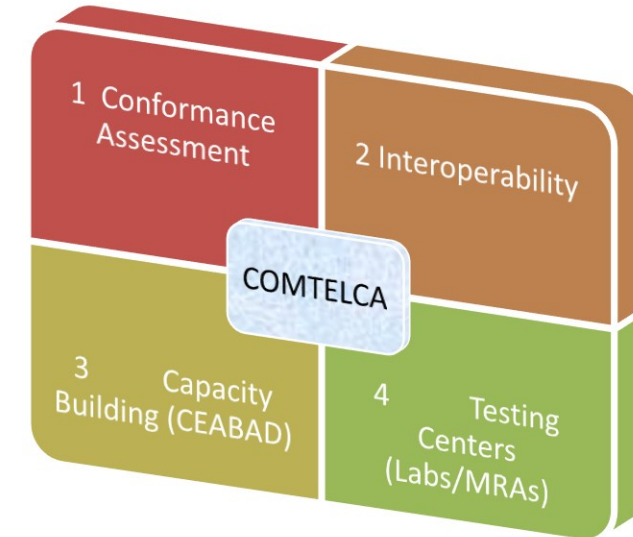
Status of ICT Standards Capabilities in CA (The Way Forward)

- Need regional approach to align purpose & regulation
- Need to create national laboratories (in-country)
- Need to create a regional test center
- Implementation of MRA (Mutual Recognition Arrangement) and approach for harmonization in the region
- Human capacity development

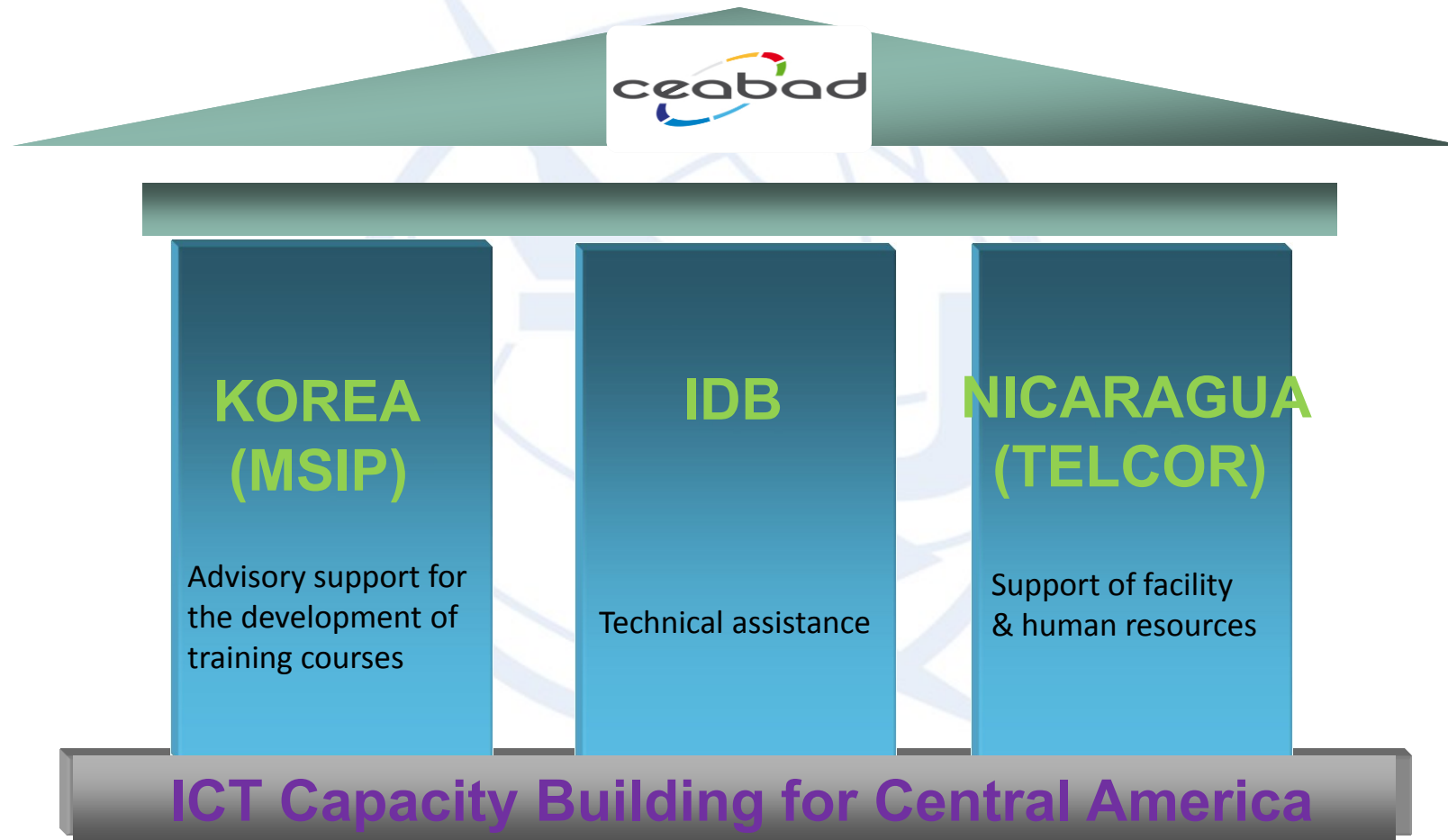
❖ Source : ITU Conformity and Interoperability Training for Americas Region, Campinas, Brazil, 2016

How Central America countries can develop their capability of standardization

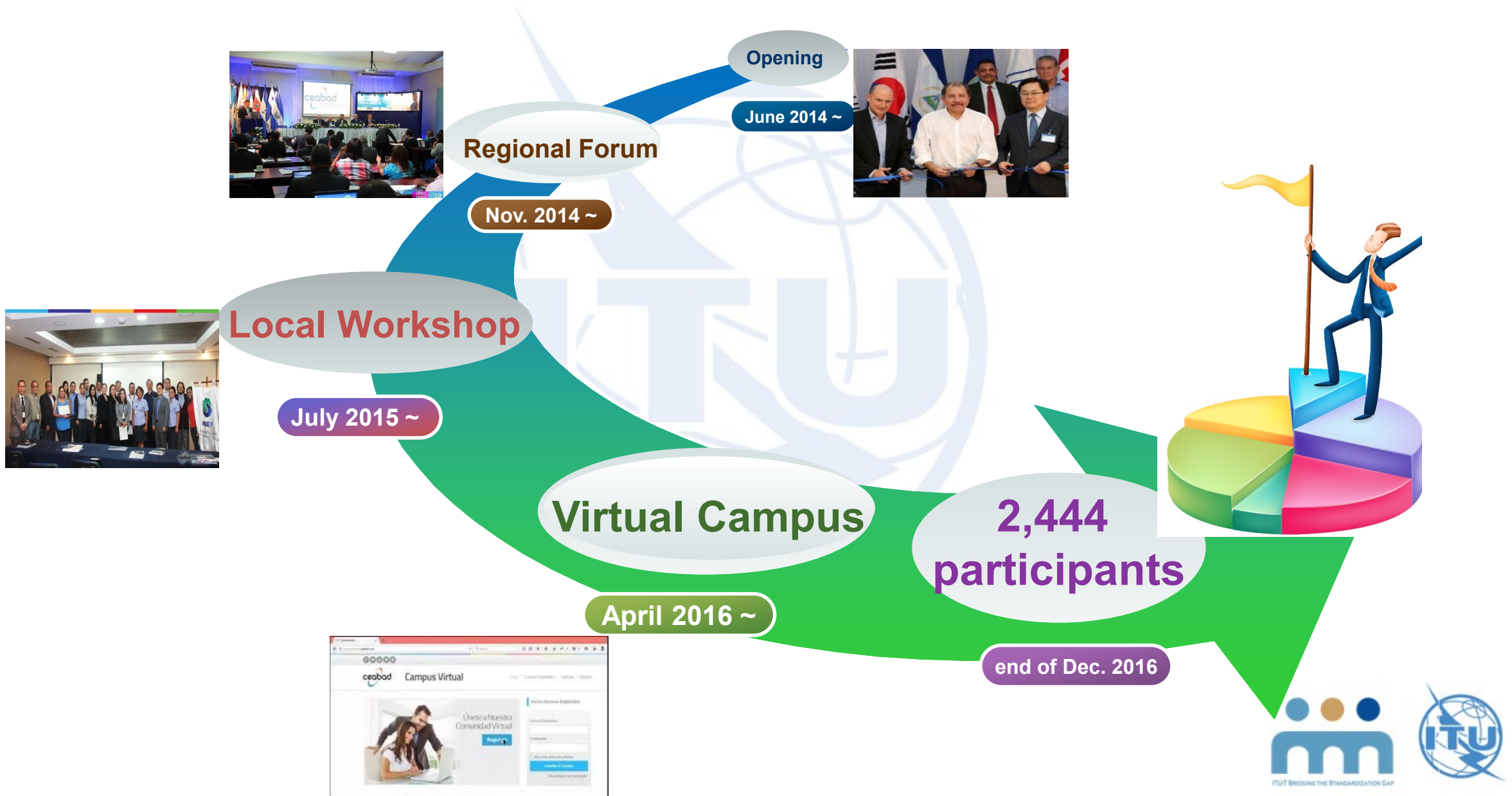
- COMTELCA with the help of ITU should implement a regional integration policy that allows the availability of highly qualified infrastructure (such as laboratories, certification and accreditation bodies)
- COMTELCA and CEABAD, with the support of ITU, ISO, IAF and ILAC, should define a solid framework for collaboration to build trust between existing test laboratories and their results
- COMTELCA and CEABAD with the assistance of the ITU must reach regional agreements with all the resources (laboratories) and the capacities of tests.
- ITU, ISO, IAF, ILAC must provide all the expertise with the region to develop training activities, accreditation and certification tests to establish regional test centers and / or MRA
- ITU should support and recognize CEABAD as the center for capacity-building in telecommunication standardization in the Region.



Governance of CEABAD



History of CEABAD



CEABAD Programs



**Regional
Forum**



**Local
Workshop**



**E-Learning
(12 courses)**

Collaborations with ITU



- **Developing two online courses**
 - Broadband Network Operation, Broadband Economics
- **Organizing events in Nicaragua**
 - Regional Frequency Coordination Meeting (8-10 Mar, 2017)
 - CEABAD regional forum (26-28 Apr, 2016)
 - Workshop on Policy Guidelines and Economic Aspects of Allocation and Use of Radio Spectrum (31 Aug – 4 Sep, 2015)

CEABAD E-Learning Program (Spanish)

Estandarización y Normalización de las Telecomunicaciones



Módulo 0 | Presentación del Curso



1. Introducción del Curso



2. Foro de Presentación



3. Guía del Alumno



4. Quiz de Conocimientos Previos

Módulo 1 | Introducción a la Normalización

Ficha del Curso

Fecha de Inscripciones:

Del 02 al 18 de Mayo del 2016

Inicio del Curso:

30 de Mayo del 2016

Duración:

4 Semanas

Agencia

Colaboradora



Rating

★ Valora este curso.



Calificado por 22 usuario(s)

Biografía del Experto



Xavier Barrágan.

Ingeniero

Electrónico



CEABAD Standardization Course

Module 1

Concepts, Objectives, Benefits and Procedures of Standardization. Legislation, Policy, and the role of a Government in the National Standardization. It also includes experiences from Europe, Asia and America.

Module 2

Concepts and Types of Conformity Assessment, its Procedure in Telecommunications Equipment and the Aspects related to: Homologation, Certification Systems and International Market Surveillance Analysis. In addition, it incorporates systematizations made in Europe, Asia and America.

Module 3

Intellectual Property Rights and Norms in the ICT industry, Conceptualizes the Patent Group and its Role, and Discusses the Mutual Recognition Agreements (MRAs) of testing and certification, their benefits, types, multilateral arrangements, actors, and bodies responsible for standardizing them.

Module 4

Some Criteria used in the design of conformity assessment systems such as Supplier Declaration of Conformity (DCP) and Certification. Content of a Technical Regulation and its definitions. Regional Experiences of conformity assessment, homologation and standardization of telecommunications equipment.

Lessons learned from training programs



- Learning by speaking
- Focus on design & colors

Cultural Aspect

Core Materials

- short but intensive
- creating their interest (using movie, game, etc.)



Interactive Teaching

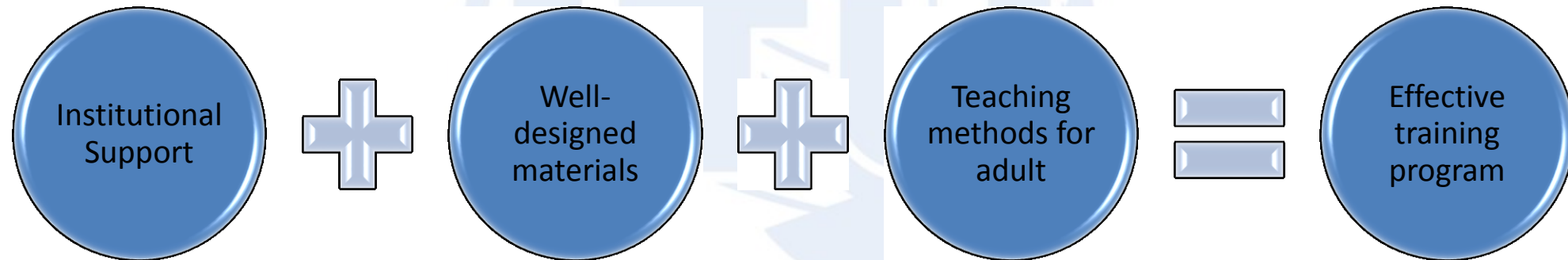
Institutional support

- Seamless communication with instructor

- Financial assistance
- Requirement of Promotion



Lessons learned from training programs



Thank you

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