tic & edu
ict edu

O impacto das TICs na educação
El impacto de las TICs en la educación
The Impact of ICT in education

WWW.ITLRESEARCH.COM
maria@langworthyresearch.com

Maria Langworthy, Ph.D.
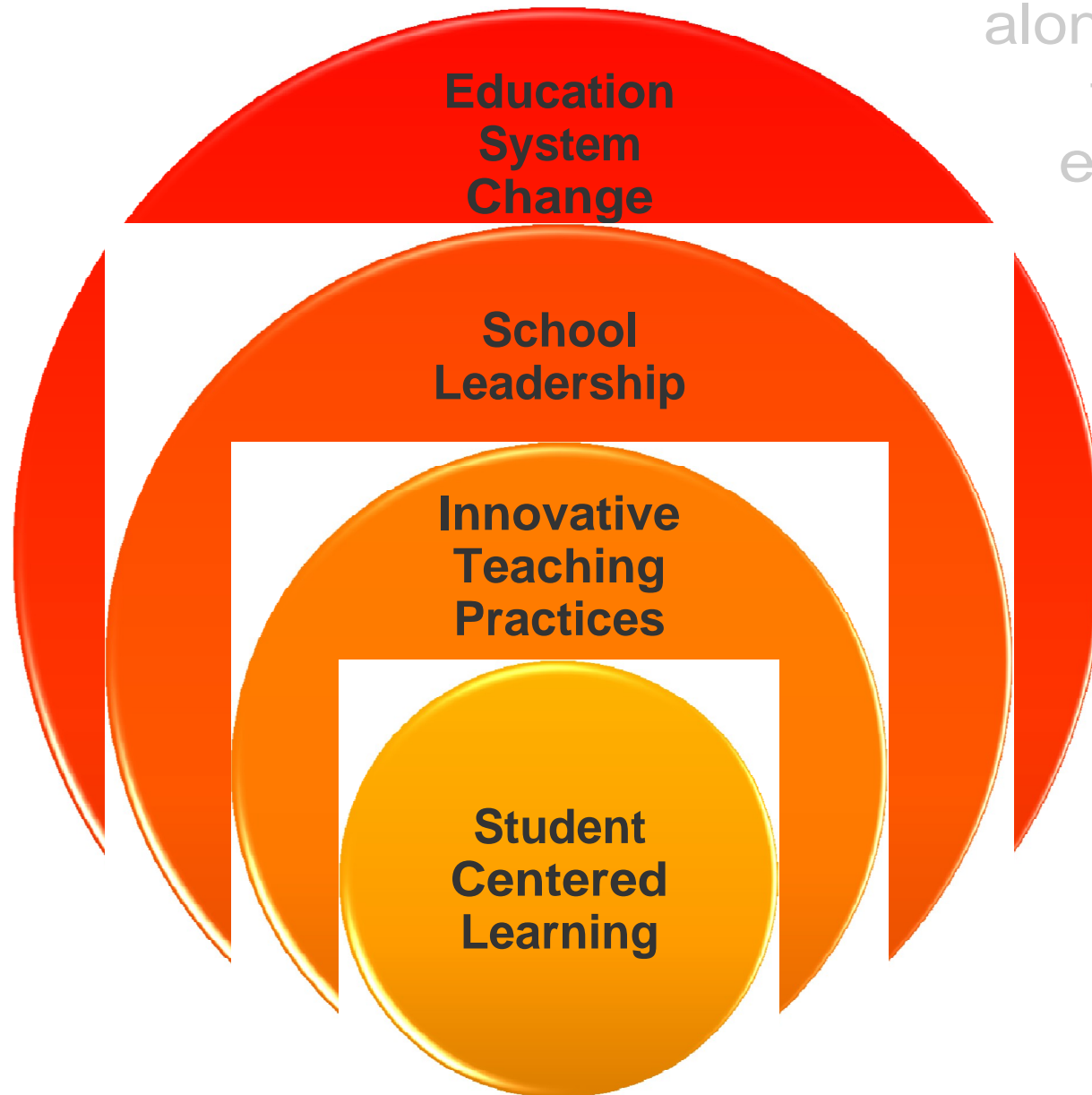on behalf of Microsoft's
Partners in Learning
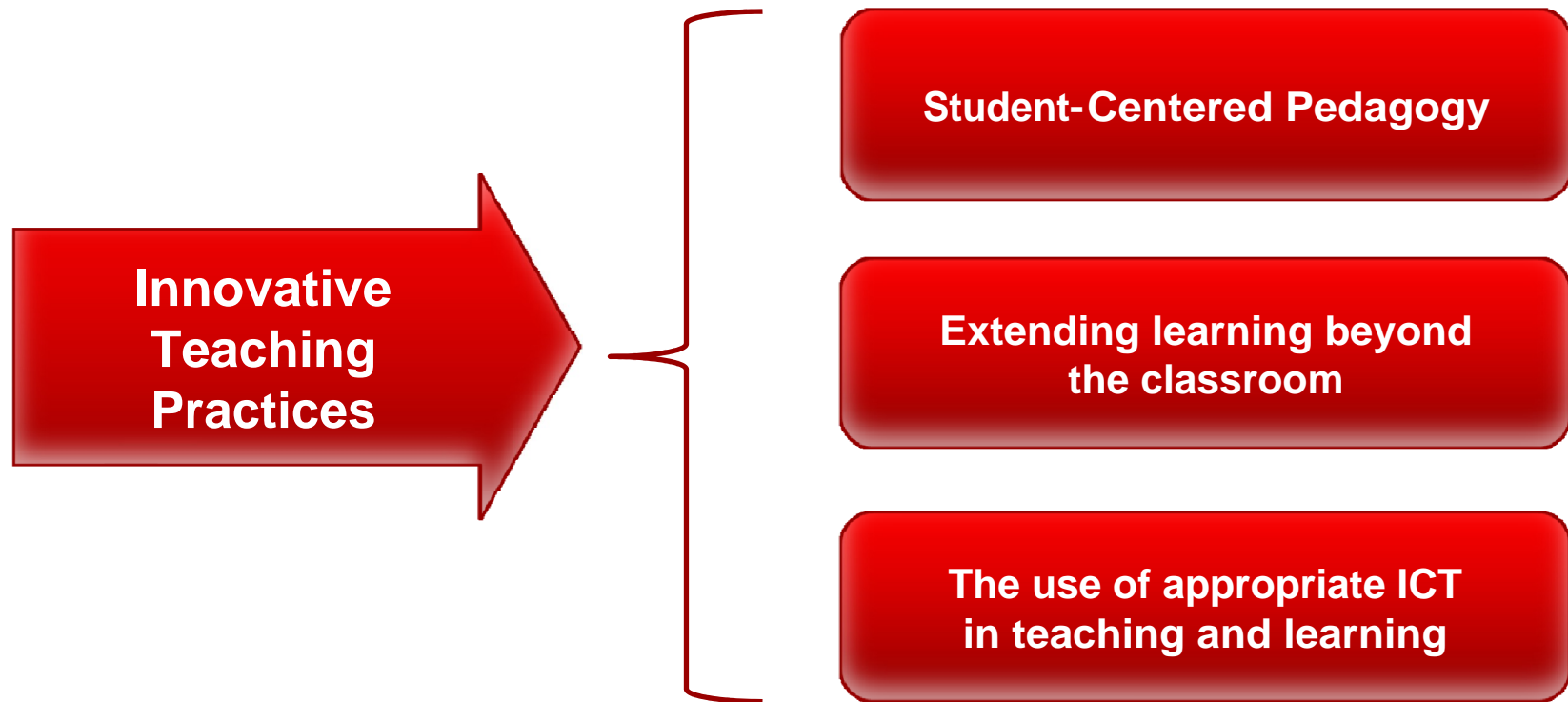
Beyond Heroes

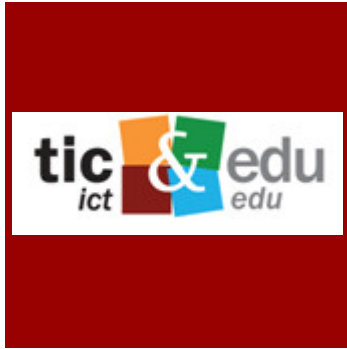Innovative Teaching and Learning

Sponsored by Microsoft Partners In Learning

Lesotho   Moliehi Sekese

tic & edu
ict edu

Technology alone will not transform education

Education System Change

School Leadership

Innovative Teaching Practices

Student Centered Learning

Innovative Teaching Practices

Innovative Teaching Practices

- Student-Centered Pedagogy
- Extending learning beyond the classroom
- The use of appropriate ICT in teaching and learning

Two questions

- **Q1: How do we <u>EXTEND</u> educator professional development aligned with UNESCO ICTCFT?**

- **Q2: <u>Do innovative teaching practices work</u> to develop students' 21C skills?**

Q1

Extending UNESCO ICTCST

- **Professional Development + Certification**

- **Cross Sector Partnership to support the deployment of the UNESCO ICTCST**

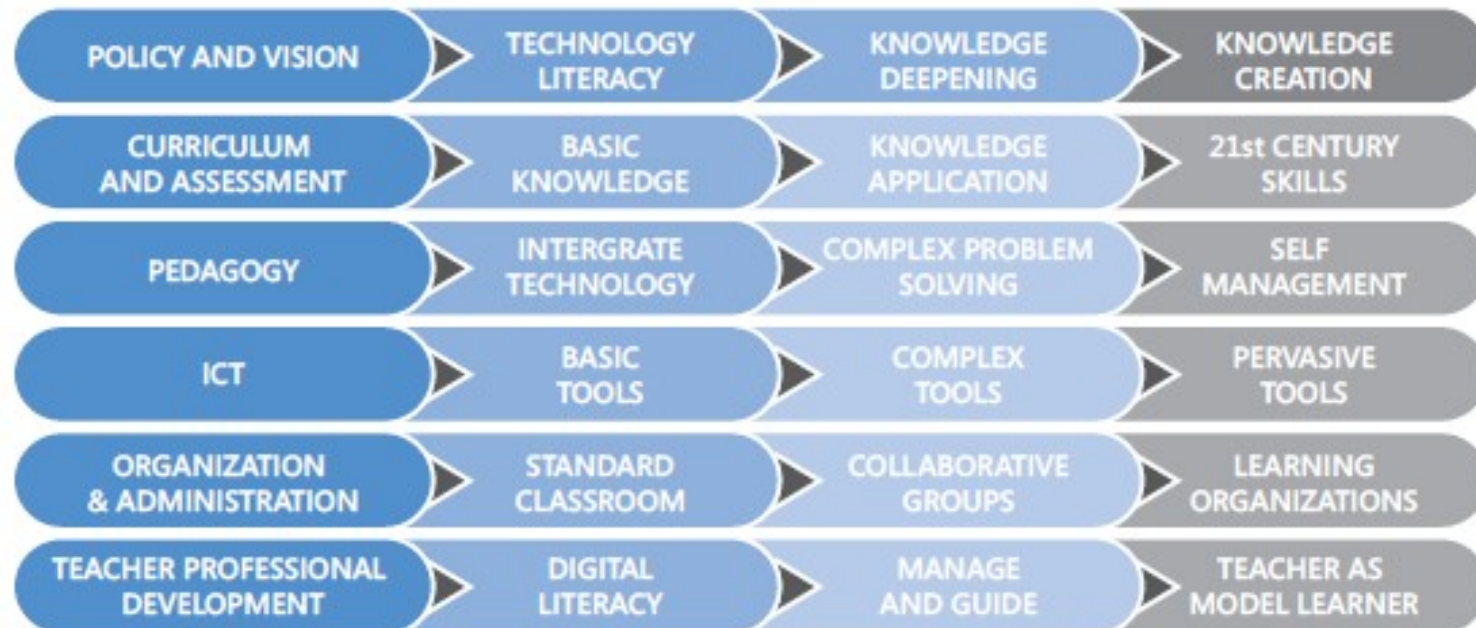- **Goal: Deliver locally relevant educator training & internationally recognized certification at scale.**
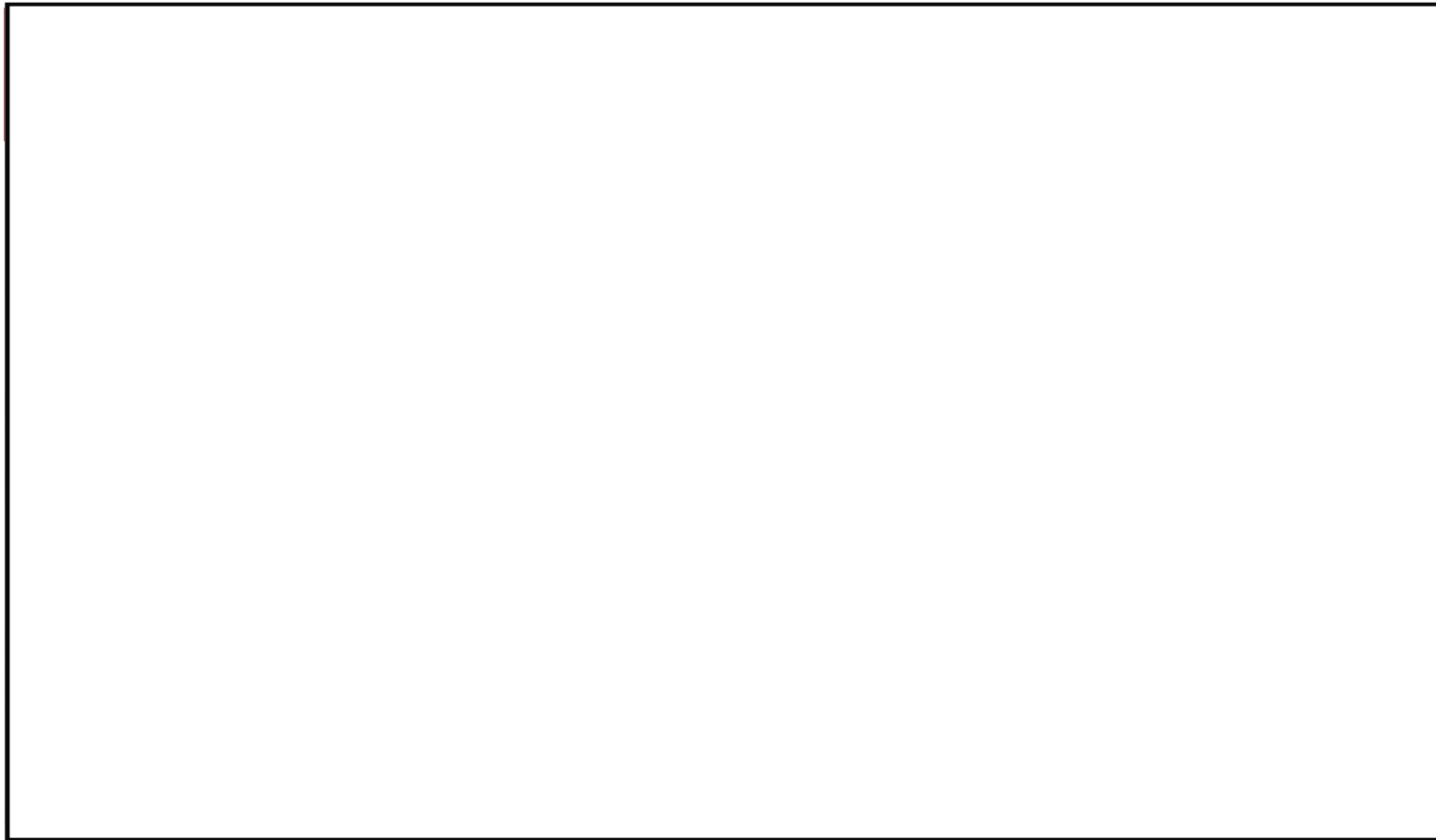
UNESCO ICTCompetency
Framework for Teachers

Partnering with Education Systems to build capacity

Q2: Does innovative teaching work to develop students' 21C skills?

Innovative Teaching and Learning Research

A multiyear global research program

designed to investigate the factors that promote the transformation of teaching practices

and the impact those changes have on students' learning outcomes

across a broad range of country contexts

Sponsored by Microsoft Partners In Learning

WWW.ITLRESEARCH.COM

Join ITL Research
www.itlresearch.com

Current Government Partners:

Russian Academy of Education and
The Academy for Teachers Training , Russia

National Board of Education, Finland

Ministry of National Education, Indonesia

National Ministry of Education, Senegal
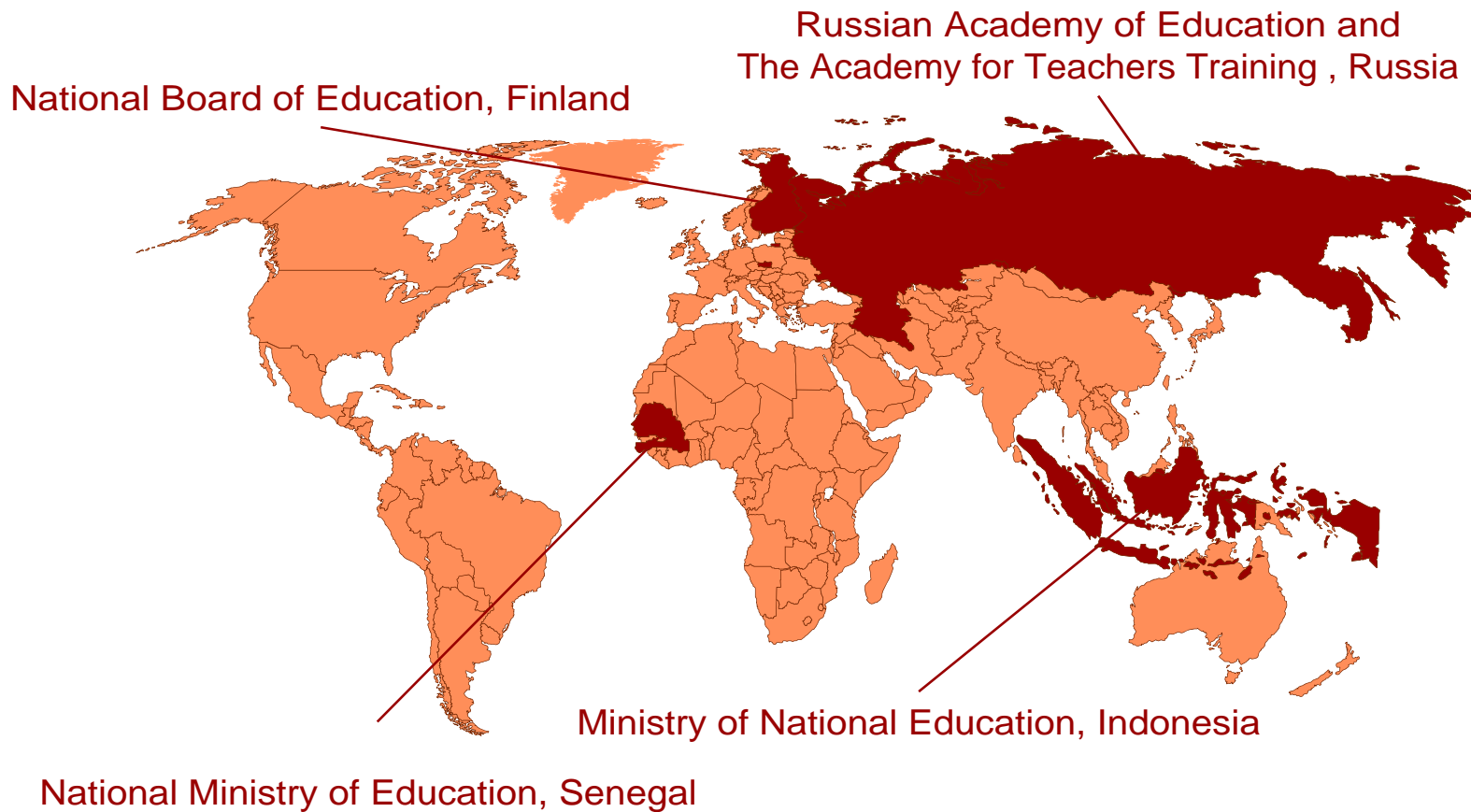
Guided by Expert Advisors

Sponsor: James Bernard, Microsoft Partners in Learning
WW Research Partner: SRI International
SRI Leads: Barbara Means and Linda Shear

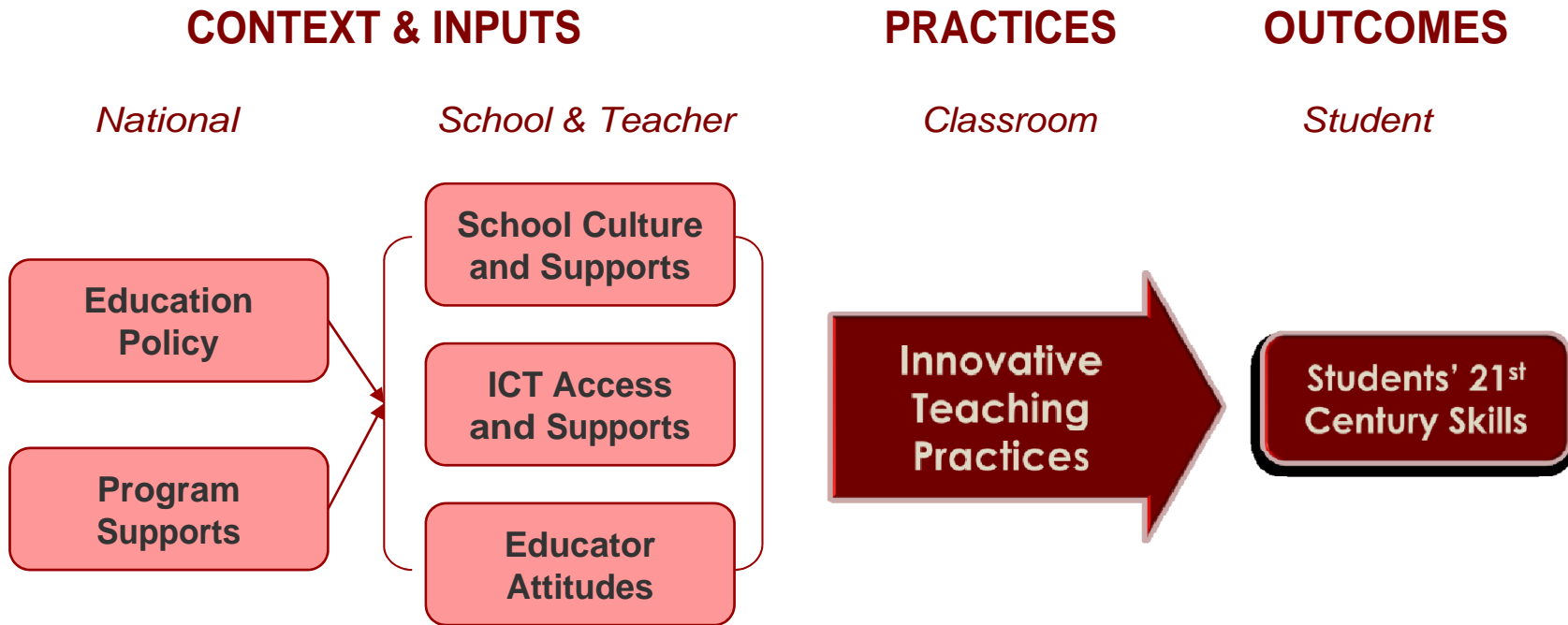|	
	Francesc Pedro
UNESCO	Tarek Shawki, Marta Encinas-Martin
European School Net	Patricia Wastiau
Kozmalone Consulting	Robert Kozma
	Geoff Scott, Hamish Coates
Ontario Institute for Studies in Education, U of Toronto	Michael Fullan
St. Patrick's College, Ireland	Deirdre Butler
	Erik Yankah
St. Andrew's Junior College, Singapore	Bee Yann Lee
	Jenny Lewis
Centre for Information Technology in Education, U of Hong Kong	Nancy Law

ITL Logic Model

CONTEXT & INPUTS

PRACTICES

OUTCOMES

National

School & Teacher

Classroom

Student

Education Policy	School Culture and Supports
	ICT Access and Supports
Program Supports	Educator Attitudes

Innovative Teaching Practices

Students' 21st Century Skills

Logic Model Measurement Methods

National **School & Teacher** **Classroom** **Student**

Model

Education Policy

Program Supports

School Culture and Supports

ICT Access and Supports

Educator Attitudes

Innovative Teaching Practices

Students' 21st Century Skills

Methods

Sample Plan
-
Per country: Designed to include schools involved in key programs and initiatives and schools not involved in them

ITL Educator Surveys
-
Per country:
Teacher Survey
40+ schools
600 respondents

School Leader Survey
40+ schools
40+ respondents

Case Studies
-
Per country:
6 schools
Classroom observations, educator interviews and student focus groups

LASW
-
Per country:
6 schools
Analysis of classroom assignments and related student work

Developing Partnership with ATC21S

WWW.ITLRESEARCH.COM

Vision of ITL Research

Provide evidence to education policy-makers on

- What works to change teachers' teaching practices

- The impact teacher change has on students' 21C skills

Develop scalable research and monitoring system

- Informed by research and standards (UNESCO CFT)

- That can be used by countries, programs and schools to measure change

- And provide consistent internationally comparable data

Some <u>Early</u> Data From ITL Research Teacher and School Leader Surveys in Russia

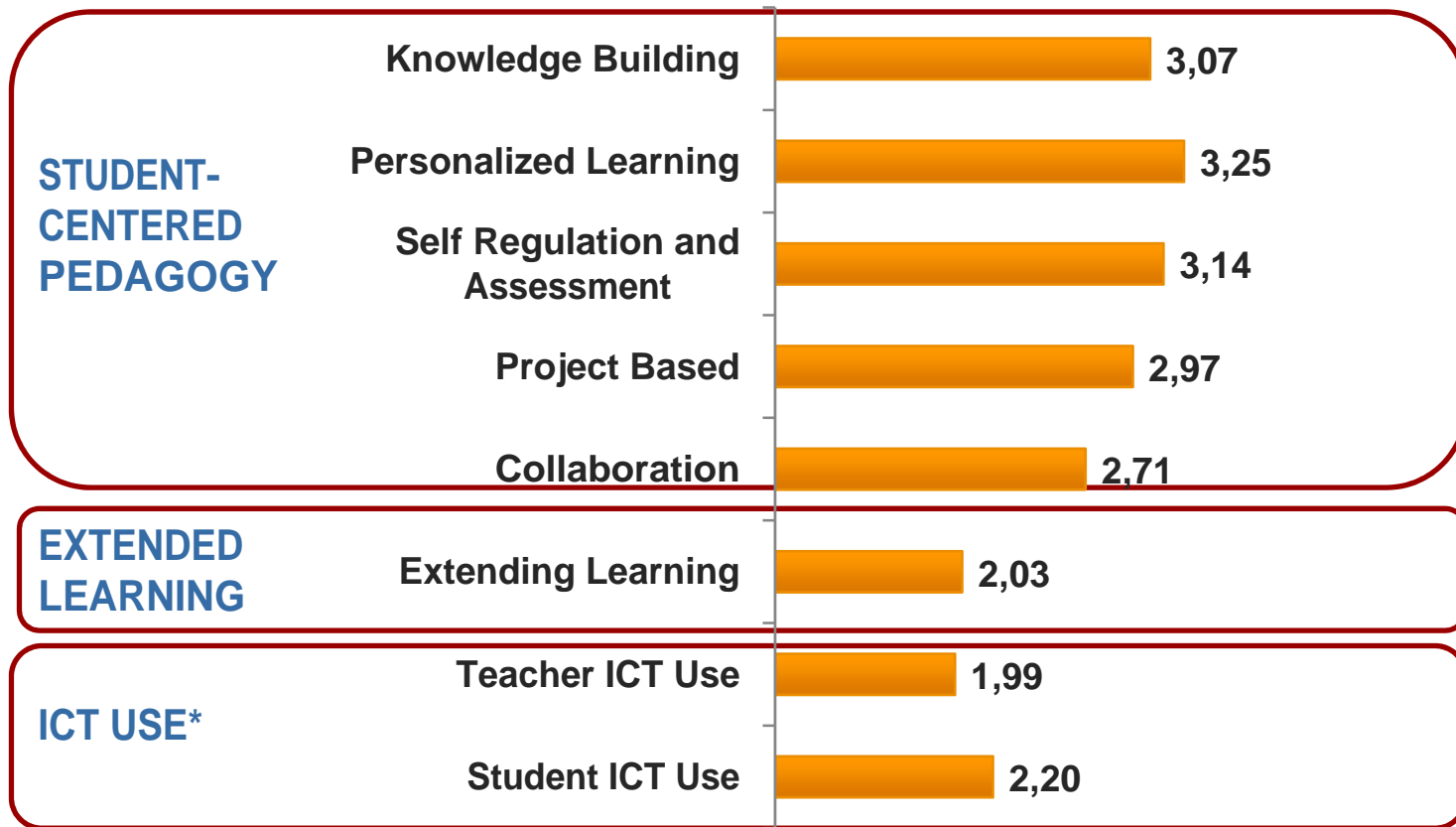**CAUTION: EARLY DRAFT ANALYSIS PRESENTED HERE**

WWW.ITLRESEARCH.COM

Innovative Teaching Practices

Russia

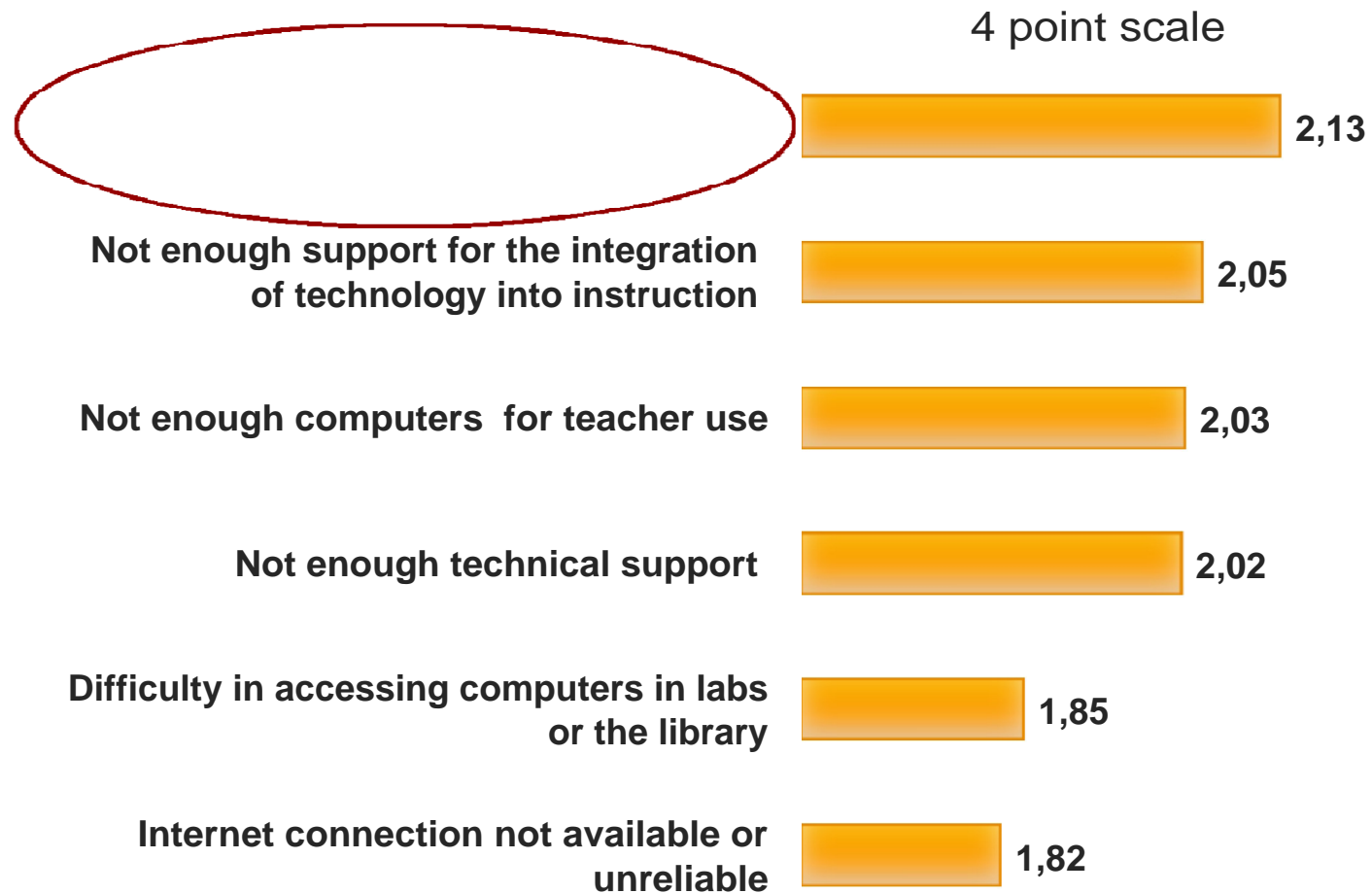## INNOVATIVE TEACHING PRACTICES INDEX SCORES
5 Point Scales, based on frequency of practice

STUDENT-CENTERED PEDAGOGY

- Knowledge Building — 3,07
- Personalized Learning — 3,25
- Self Regulation and Assessment — 3,14
- Project Based — 2,97
- Collaboration — 2,71

EXTENDED LEARNING

- Extending Learning — 2,03

ICT USE*

- Teacher ICT Use — 1,99
- Student ICT Use — 2,20

N = 795

CAUTION: EARLY DRAFT ANALYSIS PRESENTED HERE

Barriers to ICT Use: **Teacher View**

Russia

4 point scale

(circled, no label)	2,13
Not enough support for the integration of technology into instruction	2,05
Not enough computers for teacher use	2,03
Not enough technical support	2,02
Difficulty in accessing computers in labs or the library	1,85
Internet connection not available or unreliable	1,82

N = 795

CAUTION: EARLY DRAFT ANALYSIS PRESENTED HERE

Barriers to ICT Use: **School Leader View**

Russia

4 point scale

Not enough funding for ICT — 3,35

Teachers' lack of interest or willingness to use ICT — 3,17

Teachers' lack of training for using ICT in their instruction — 3,13

Outdated computers or software — 3,09

Insufficient time for teachers to prepare lessons that use ICT — 3,00

2,96

N = 23

CAUTION: EARLY DRAFT ANALYSIS PRESENTED HERE

THANK YOU

WWW.ITLRESEARCH.COM

maria@langworthyresearch.com