

“Digital Secondary Education, 21st century skills and readiness for the world of work”

African Forum on Youth Skills and Enterprise in the Digital Age

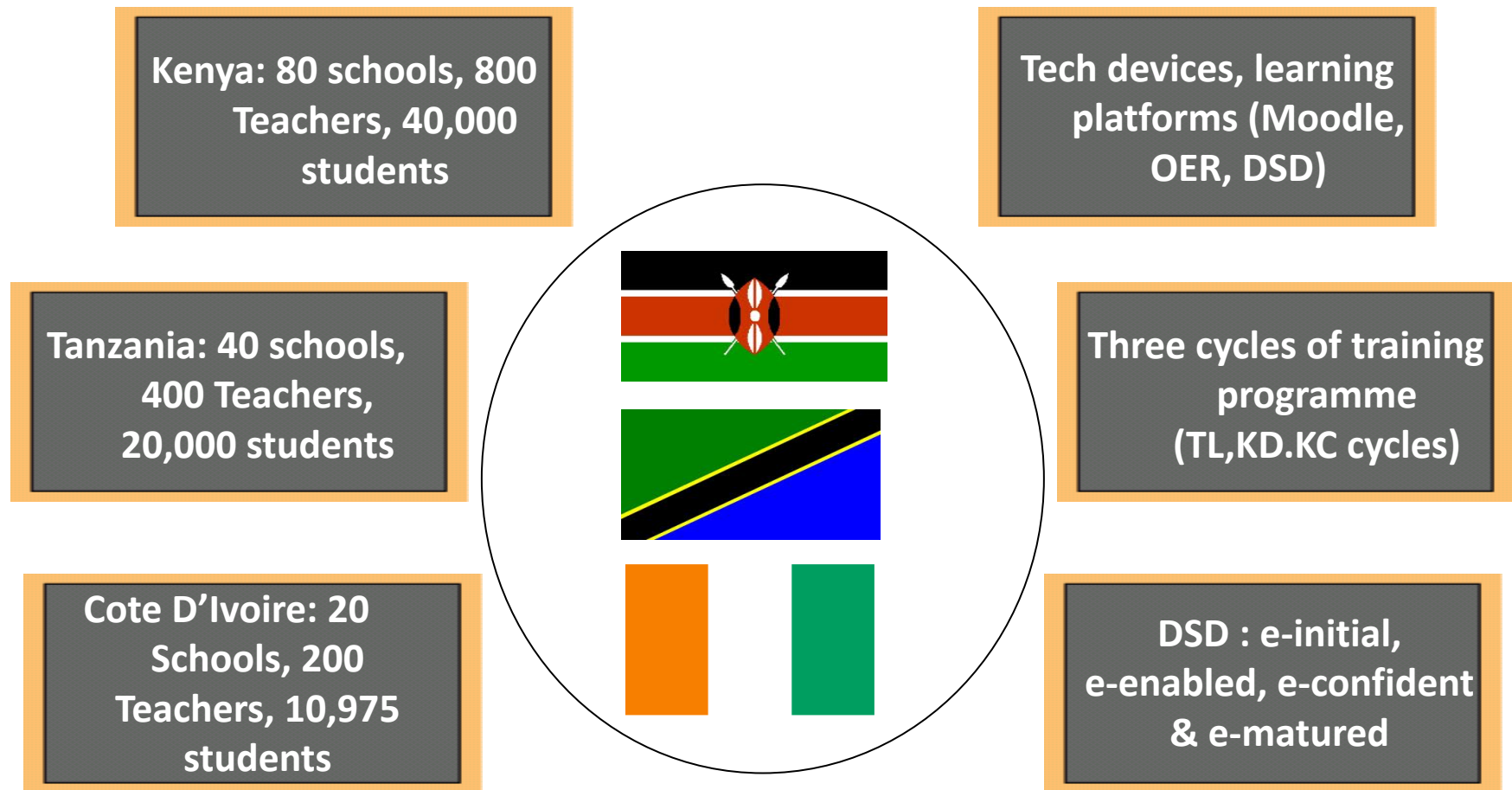
19th April 2018

“Digital Secondary Education, 21st century skills and readiness for the world of work”



African Digital Schools Initiative (ADSI)
Kenya, Tanzania and Côte D'Ivoire

ADSI Programme...Snap shot



5 Year (2016-2020), 3 Countries, 10 Counties / Regions, 2 Languages, 140 Schools, 140 School Head Teachers, 560 School Board Members, 1400 Teachers, 40 SST members and 70,000 Students

The African Digital Schools Initiative (ADSI) – Goal...



The **goal** is:

- to develop a sustainable and replicable model of whole school ICT integration
- to provide structured teacher professional development through the effective use of ICT in classroom practice
- to enable learners to acquire 21st century skills and preparedness for the world of work which they will experience when graduating

Project Objectives

- Strengthen whole school integration of ICT integration through GESCI's *digital schools of distinction* innovative model
- Develop teacher expertise in sourcing, re-purposing and creating curricula teaching and learning materials and build online repository of resources and exemplars of ICT-based materials for STEM and other subjects
- Generate evidence that can be used by governments, GESCI the foundation and others to take the project to scale
- Embed and coordinate the implementation of the ADSI model with the ministries of Education in Kenya, Tanzania and Cote D'Ivoire

Strategies for successful and sustainable implementation

- **Institutionalization** of the ADSI model- working with the ministries, Expert Working Group (EWG) at National level; a School Support Team (SST) at County level / Regional level
- **Whole School Planning for ICT Integration** through the school leadership, STEM Teachers and other subject teachers in planned transformation of schools to Digital Schools of Distinction
- **School-based Professional Development** - support through School-based coordinators whose capacity will be developed to provide the first line of support in project activities at school level
- **A Blended Learning Approach** for STEM teachers, and other teachers including face-to-face sessions, online access to content through a Learning Management System and classroom observation sessions during ICT Integration practice

What are the fundamental and core features of innovation in ADSI?

Utilisation and integration of 3 frameworks

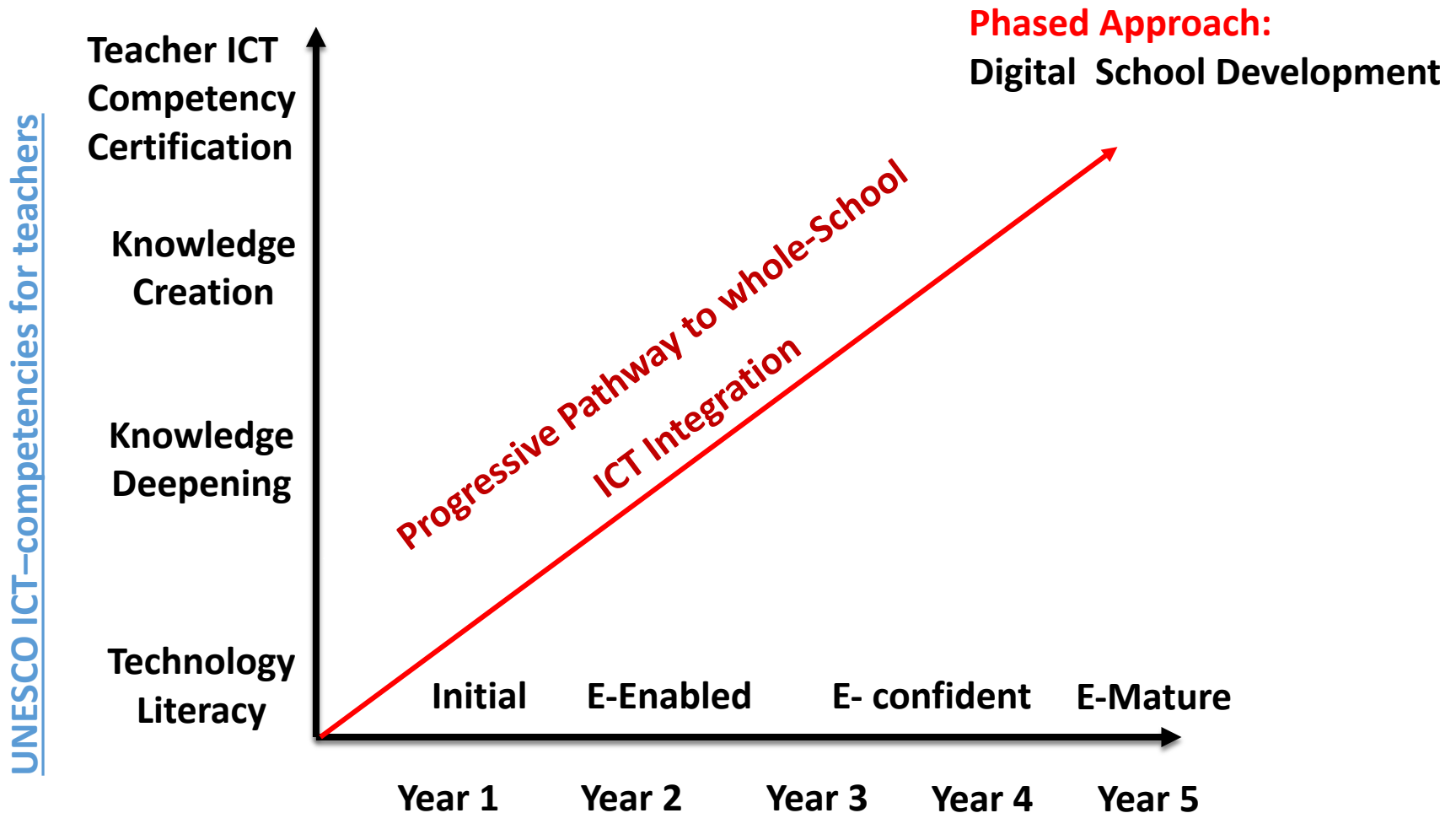


GESCI's Digital Schools of Distinction Framework incorporates:

- ✓ **An ICT Competency Framework for Teachers**
- ✓ **The Technology pedagogy and Content Knowledge**
- ✓ **Model for 21st Century Skills in teaching and learning**

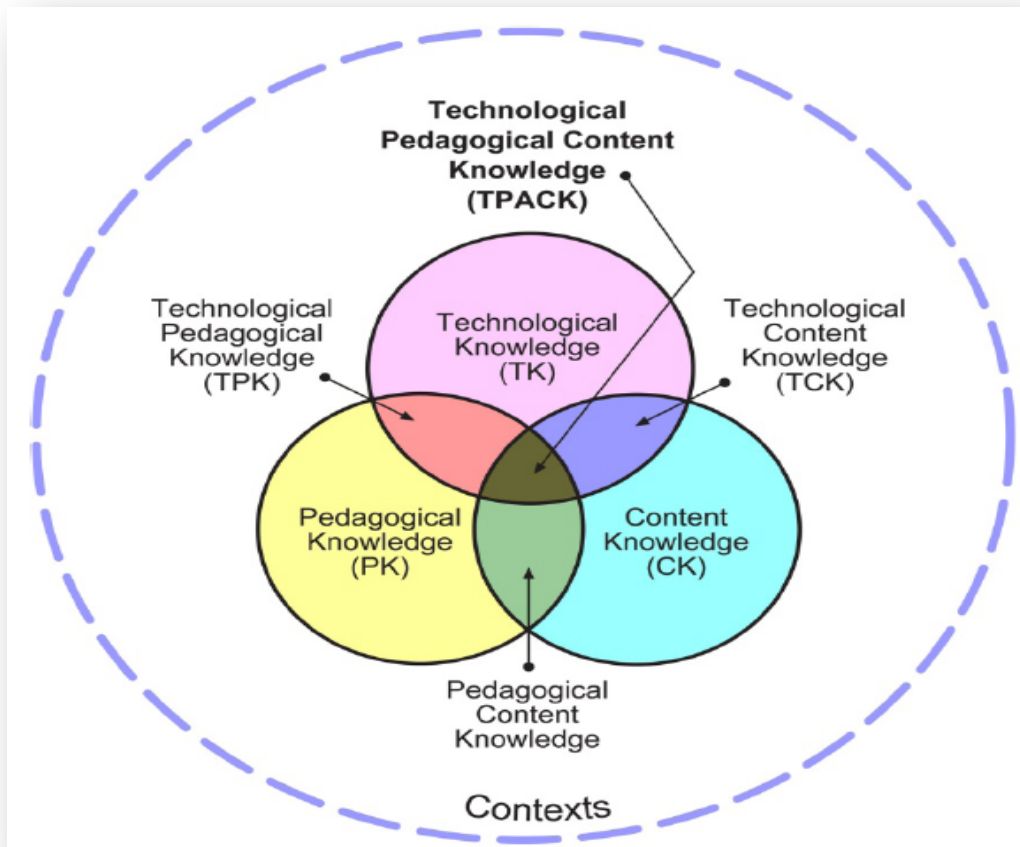
All frameworks are contextualised and localised

GESCI's Digital Schools of Distinction Framework



ADSI Professional Development: **TPACK**

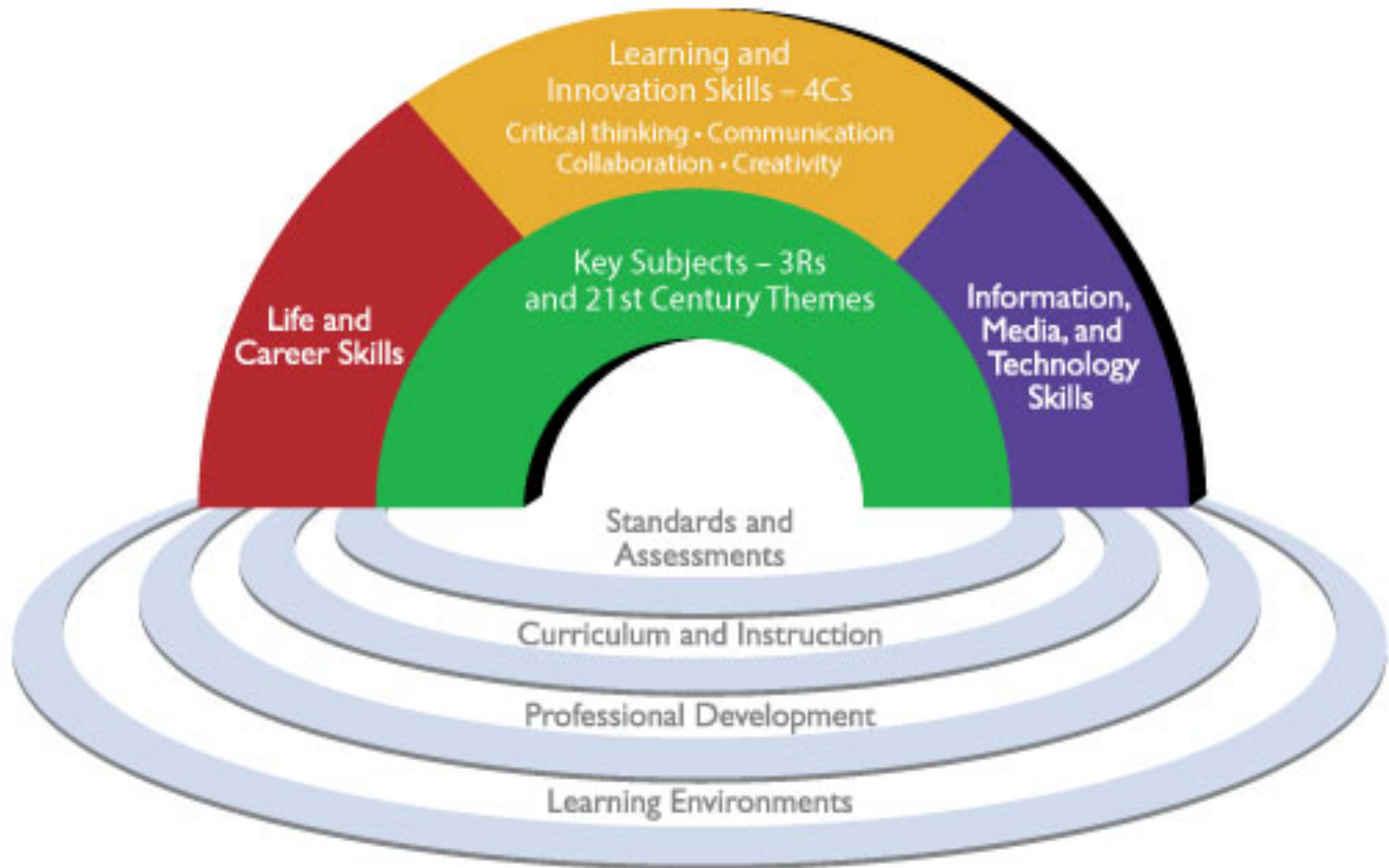
Introduction to ICT as a **tool to enhance and/or innovate teaching and learning**; seeking to **enable teachers to integrate ICT** in classroom teaching



- Technology Knowledge
- Pedagogical Knowledge
- Content Knowledge

From: <http://www.tpack.org/>

ADSI Professional Development: 21CS



Source: <http://www.p21.org/our-work/p21-framework>

Components of ADSI model

- **Virtual Learning Environment (VLE)**
- **Online Educational Resources (OER)**
- **Technology Pedagogy and Content Knowledge (TPACK)**
- **21ST Century Skills**
- **Teaching methodologies e.g ATL**
- **Lesson Design- lesson planning, presentation**
- **Teachers Reflection practice & peer review through video observation**
- **Course outline**
- **Digital Schools of Distinction**
- **Certification to Teachers and Schools**

Positive gain in Board Exams - between 2016 & 2017 – Kenya

	English	Maths	Biology	Chemistry	Physics	Computer Studies
Taita Taveta (20 Schools)	90%	85%	35%	56%	58%	75%
Nyamira (20 Schools)	85%	80%	20%	70%	40%	80%
Narok (19 Schools)	95%	95%	32%	84%	33%	75%
Kiambu (20 schools)	90%	75%	10%	55%	35%	75%



Thank you...

Contact:

E-mail:

Senthil Kumar, Programme Manager – ADSI

senthil.kumar@gesci.org