

Conquering the Digital Divide

Innovative EdTech to Reach SDGs

The Digital Divide in Education

- ✓ Industry and governments have invested billions to enable e-Learning globally
 - Intelligent devices (tablets, PCs, smartphones)
 - Learning Management Systems for guided curriculum
 - Rich media resources
- ✓ However, this assumed a solid, constant internet connection for the learning process
- ✓ As a result, much of the Developing world has been left behind

“Many schools in developing countries reserve Internet for administration. Moreover, indicators do not measure the quality or speed of Internet connectivity, which is known to vary significantly between countries.”

- World Bank “WSIS Targets Review report”

“...while Internet access has been universally achieved in the majority OCED countries, (it) is lagging behind in most developing countries...it remains under 10 per cent in some countries from all developing regions...”

— Partnership on Measuring ICT for Development and the International Telecommunication Union

SDG 4.a.1: Are we really there?

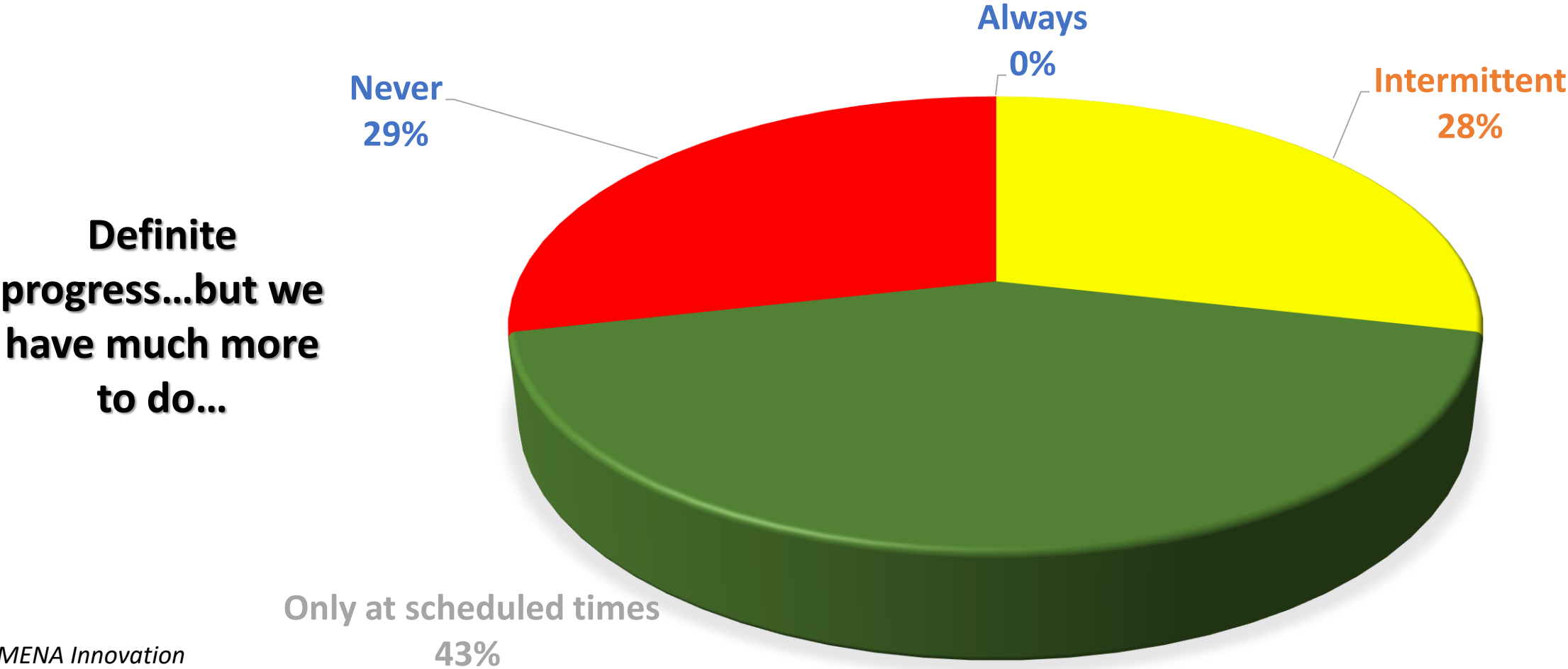
What capabilities do students really have?



What capabilities do educators really have?

Street-level input in developing economies

INTERNET ACCESS IN AFRICAN SCHOOLS



Source: MENA Innovation Conference Survey, 2018



Micro-Cloud [**mahy**-kroh kloud], *noun*,

1. A self-contained cloud environment containing all resources needed for a full cloud experience, even if there is no network connection
2. A platform that provides local infrastructure, local applications, and cached content to accomplish a specific task
3. Insulates local users against network outage, instability



**INTEGRATED INTO A
LARGER CLOUD-
BASED PARADIGM**



**Localized e-Learning,
structured curriculum and
content**

Micro-Cloud Platform for Education



 **Critical Links**

Manages content and configuration centrally

Standardization



Integrated LMS to drive e-learning courses and activities



Wi-Fi Access Point for easy access to resources

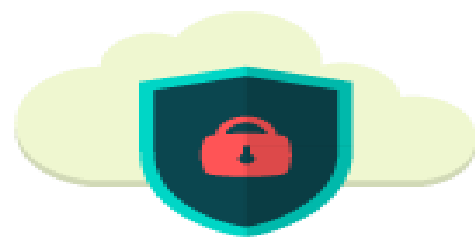


Access digital content instantly via cache

Pedagogy



Filter Internet access by profile, controlling access



Control user access of local and Internet resources

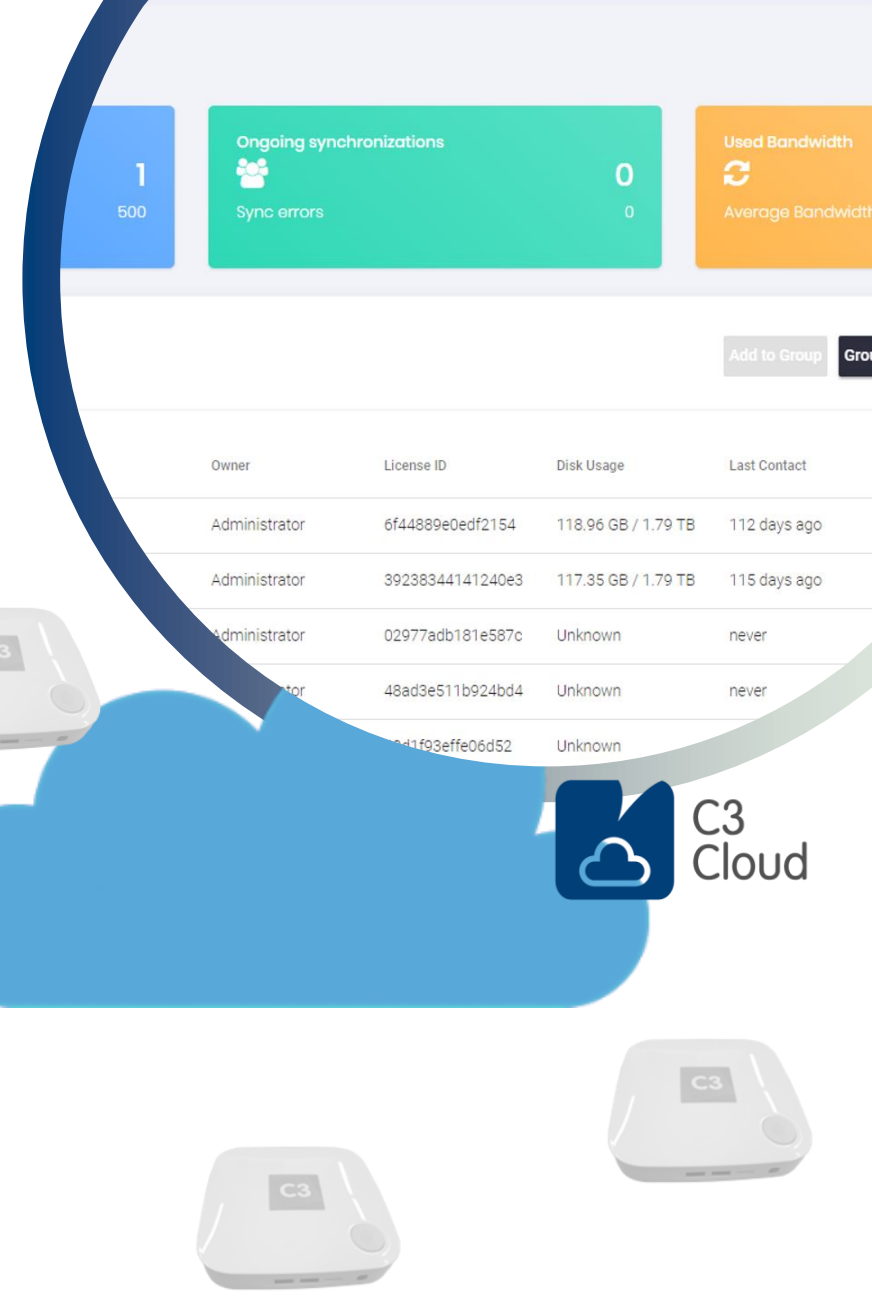


Improve internet use via caching & control

Resources

It's Time to Leverage the Cloud

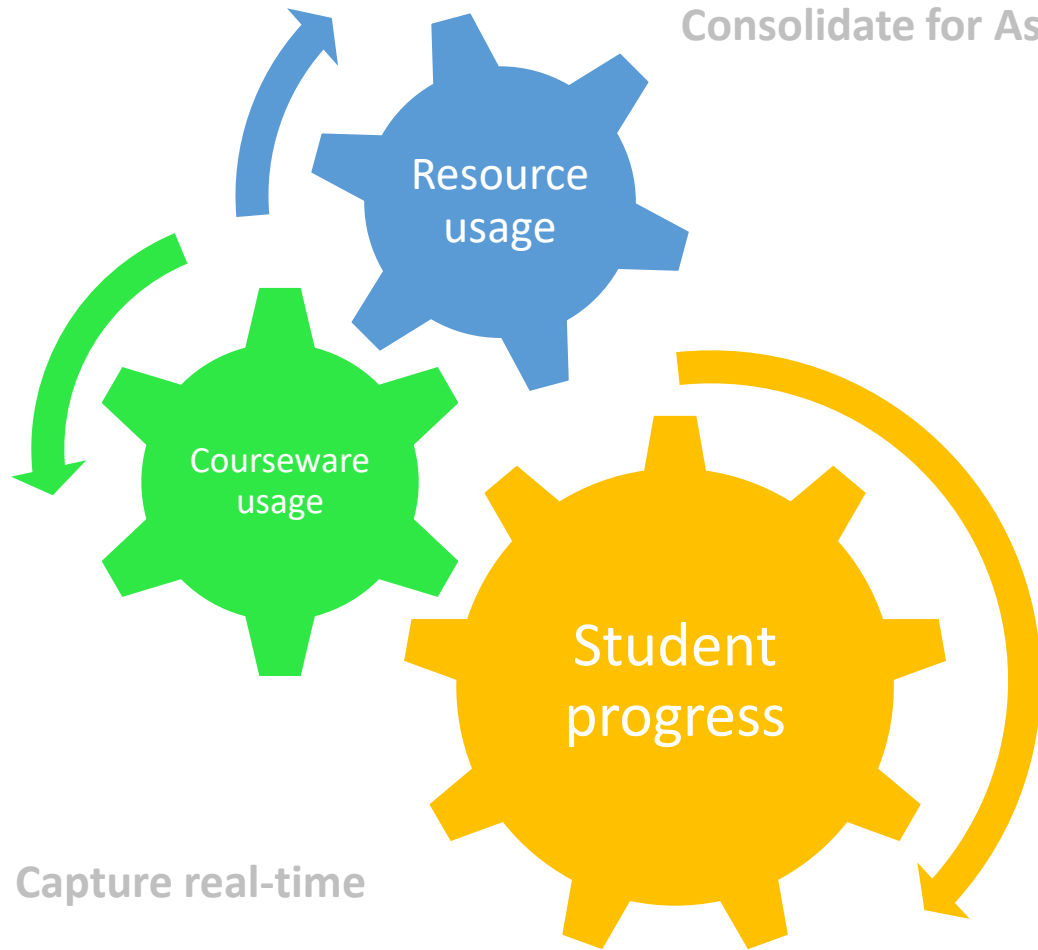
- ✓ Central administration for thousands of micro-clouds
- ✓ Curate and distribute content & curriculum
- ✓ Standardization of all micro-clouds, system and content
- ✓ Policy-based control and security
- ✓ System management/updates from a single point



Now we can Measure SDG Progress Over Time



Consolidate for Assessment



What' the Result?



- ✓ Less reliance on infrastructure/internet for e-Learning
- ✓ Increased adoption and usage by students
- ✓ Greater standardization and 'currency of knowledge'
- ✓ Less reliance on local staff competency

CONNECTING STUDENTS TO KNOWLEDGE



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#CONNECTINGSTUDENTSTOKNOWLEDGE