E-Education, E-Teaching, E-Learning

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• Learning : “State of Arts”
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Preamble

• Appropriate Technology for effective and seamless services to the citizen
• Providing effective learning system as a service to the every citizen
• Technology, Innovation should be driven by the need
Learning as a Service

• We still use traditional approaches of learning
• Student has to learn what teacher teaches
• Student has to make themselves ready as per teacher
• This is one of the core reasons of decline learning curve
• Now, the time has come to think in other around [Innovation needed]
• Now, teacher has to teach as per the student desire and comfort
• Focus on inline with SDG 4
SDG Goal 4 [Quality Education]

- Ensure inclusive and quality education for all and promote lifelong learning
Seven Outcomes Targets

1. Universal primary and secondary education
2. Early childhood development and universal pre-primary education
3. Equal access to technical/vocational and higher education
4. Relevant skills for decent work
5. Gender equality and inclusion
6. Universal youth literacy
7. Education for sustainable development and global citizenship
Three Means of Implementation

• Effective learning environments
  – *Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all*

• Scholarships

• Teachers and educators
SDG Goal 9

• Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation
Research for effective learning

• How can we bridge the gap among different schools in our country?
• How do we make our learning system more effective?
• What are the challenges?
• How do we meet the targets of SDG 4 and SDG 9?
• Research on Role of ICT in all SDG 17 goals
Solutions

• Imagination
• Innovation
• Imagination + Innovation = Imaginnovation
• Research on ICT in Education
• Let us grab the potential of ICT
• Ubiquitous System [Learning] is one of the solutions
Ubiquitous Learning

- Introduction
- What are we doing on U – Learning?
- Why U – Learning?
What is Ubiquitous Learning

• The *Ubiquitous Learning (U-Learning)* is an approach where learning is made to appear anytime and everywhere, in any format using any devices such as tablets, smart phones, or any terminals.
State of Arts of Educational Environment in Nepal

- Challenges of Facilities
- Challenges of Experts
- Challenges of Electricity
- Challenges of Education Materials
# High-Gap of Education Opportunity

<table>
<thead>
<tr>
<th>No</th>
<th>Schools</th>
<th>Ave. Score</th>
<th>Num. of Students</th>
<th>Sector/ Location</th>
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<td>Arunima Higher Secondary</td>
<td>G3 27.57</td>
<td>15</td>
<td>Private / Khathmandu (Capital city)</td>
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<td></td>
<td>G5 36.79</td>
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<td>G5 35.8</td>
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<td>Private / Mugling (Hilly area)</td>
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<td>G5 32.65</td>
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<td>G5 23.5</td>
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<td>G5 22.92</td>
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<td>G5 N/A</td>
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Big-Gap of Education Opportunity
How do we bridge the gap?

Ubiquitous Learning[ U- Learning ]
U-Learning Technology in Nepal
Education Innovation Center
(u-Learning & UBT Center)
NEPAL

Empowering Educational Opportunities by u-Learning Technology
U-Learning & UBT

Relay Server

Access Point

Anywhere and Anytime

Portable & Chargeable Case
U-Learning Box

Smart beam
Wireless Dongle
Stand
Speaker
Battery
Smart Pad
U-Learning technology makes a multimedia room anywhere, anytime.
Collaboration

National Research Foundation of Korea

Jinju National University

Tribhuvan University

Kathmandu University

EEO BULT Network

NSD
Pilot Project for Model School

Mugling

Kauche

Lalitpur

Bhiman

Bhimeshwor

Manekharka

Kathmandu

Dhungrebas

Nargho
U-Learning Training Program in Nepal

• **Learning how to utilize** U-learning equipment in the class
• **Developing** education contents based on U-Learning
• **U-learning based instructional strategy**
• **R & D activities for providing** UBT and U-Learning system to schools
Present Status of U-Learning classes in Nepal

Common English
Grade 3

Common English
Grade 5

Implementation in Classes
U-Learning classes are running in 9 schools
Smart Health System

1st) Phase

2nd) Phase

3rd) Phase

4th) Phase
Proposed Smart Medicine Project

Kathmandu University (Center) → Drone-post → Outreach Center
Conclusion

• Missed all the revolution [ Agricultural, Industrial ]
• Let us not miss ICT revolution for our nation building
• Problem identification through involving academic institutes
• ICT for SDG 17 Goals
• Let us work together
• We can do
Thank you very much !!!

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