

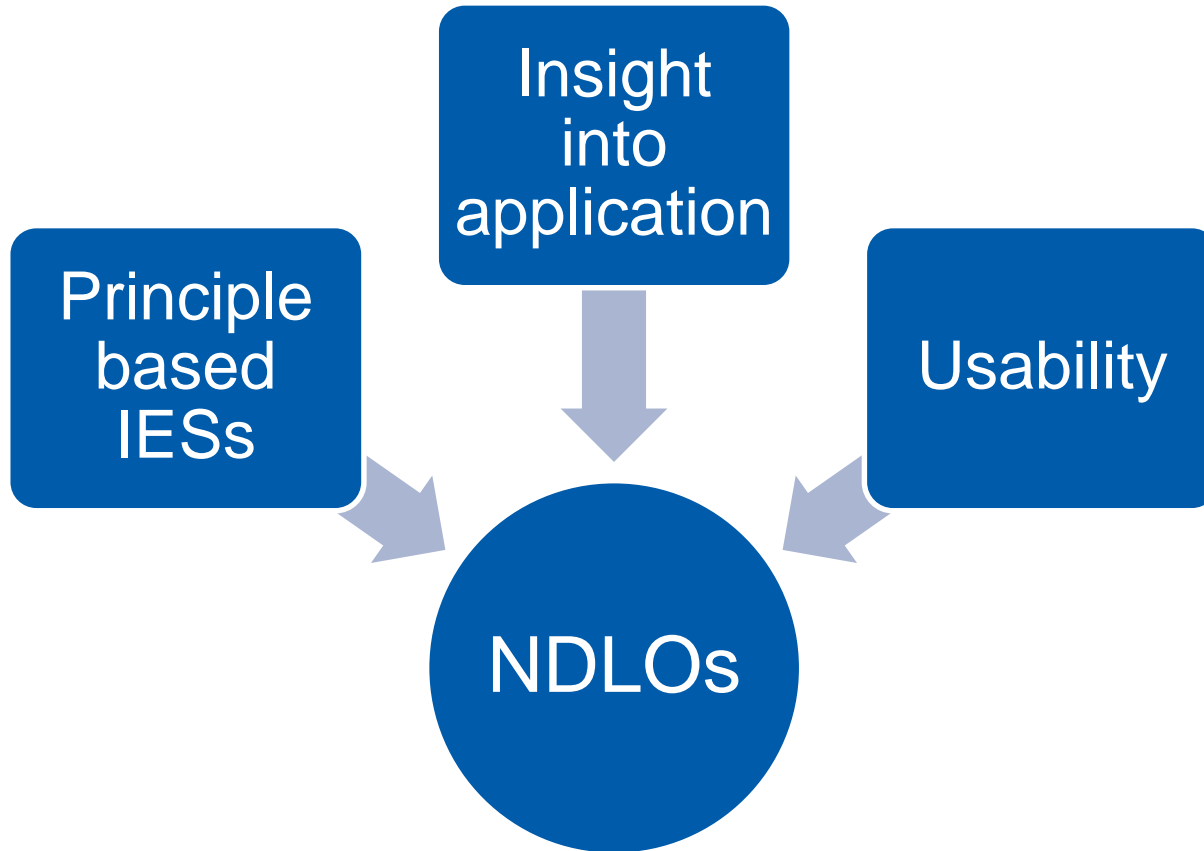
# Information & Communications Technologies (ICT) Task Force

## Non-Authoritative Detailed Learning Outcomes (NDLOs)

Bali, Indonesia  
April 2019



# The Case for NDLOs



# Request IAESB Input on ICT Proposed Process for Developing NDLOs

## OBJECTIVE

- Provide users with insight into the application of the principles-based Learning Outcomes and how they can be viewed through an ICT lens
- Provide learning outcomes the user may incorporate into their program, or provide ideas or considerations when users are developing their own learning outcomes

# Process to Develop NDLOs



- Principally the same as the process used to draft the learning objectives
- Drafted detailed learning outcomes from granular skills identified during outreach
- Mapping of detailed learning outcomes to IESs and competency areas
- Review by CRT and light DWG

# QUESTIONS

- A. The ICT Task Force has concluded the process to develop the NDLOs from information gathering activities is sufficient and provides a reasonable basis on which to issue non-authoritative guidance.**

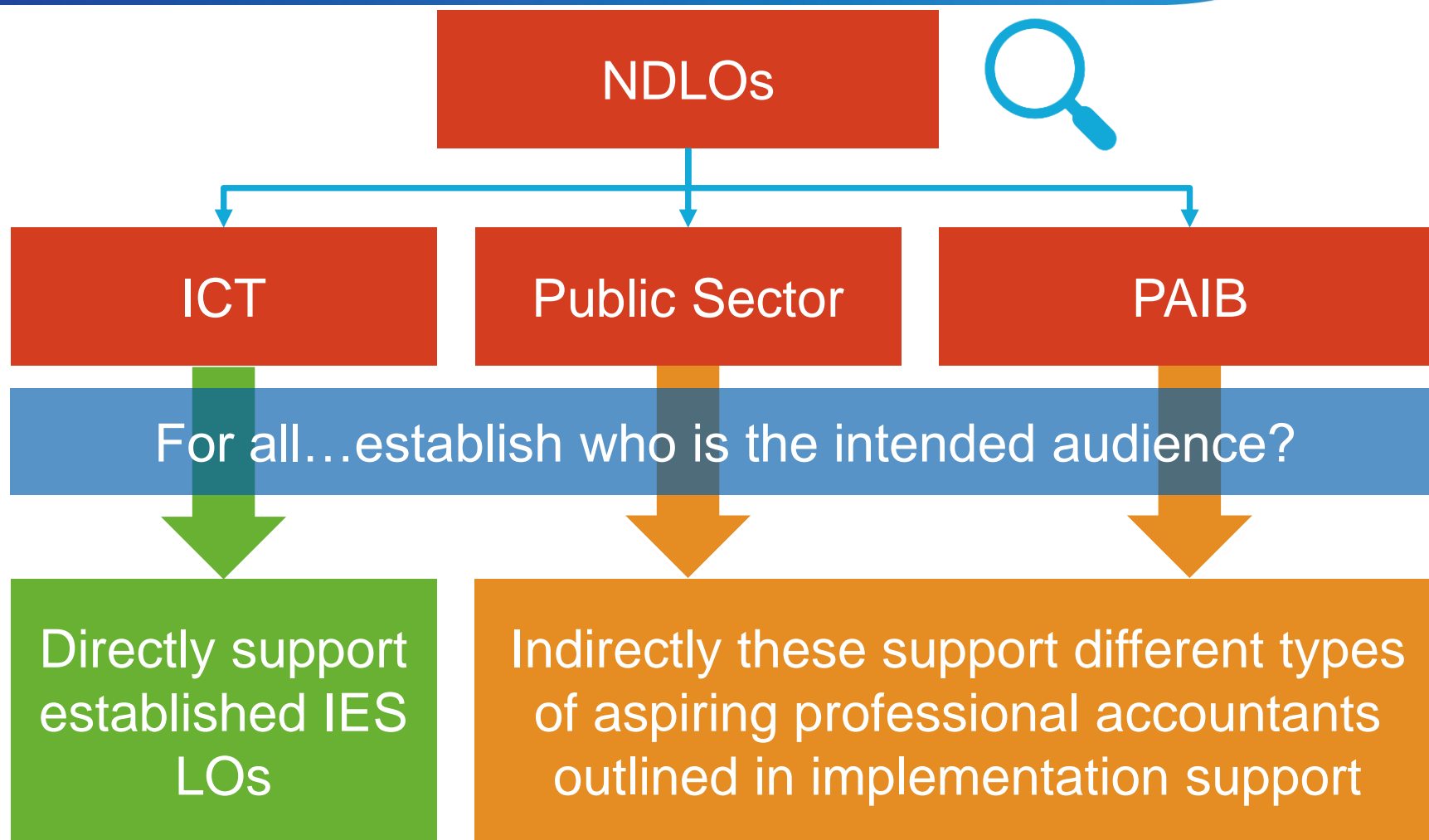
**Does the Board Agree?**

# CAG feedback



- Re-write the introductory section, emphasize non-exhaustive nature, ‘indicative’ content to help users
- Amend structure of Agenda Item 5-2 table
  - Avoid implying a ‘build’ concept – the NDLOs are not intended to be a way to achieve the LOs
  - Reorder individual items against each LO starting with the lowest level verb to provide a framework
- Recommended removing verbs in each NDLO
- Change the terminology
  - Avoid use of ‘LOs’ in title
  - Potential change to ‘Indicative Topic Areas’ (ITAs)

# Implication – may need a different approach...



# Implication – what could this look like for ICT?

Proposed Competence Area – Exposure Draft	Proposed Learning Outcome - Exposure Draft	Proposed Non-Authoritative Detailed Learning Outcomes (NDLOs)
(i) Business environment and organizational environment	(ii) Explain the impact of ICT developments on business and organizational environments.	<ul style="list-style-type: none"> <li>• Describe how ICT can impact business models and drivers of value.</li> <li>• Identify the impact of risks, processes and flows of data and information, to an organization.</li> <li>• Analyze the implications of technological, operational, security and business issues critical to maintenance of an ICT environment.</li> <li>• Identify when an organization should seek advice from experts on the adoption and integration of ICT.</li> <li>• Summarize the advantages and disadvantages of data visualization tools.</li> <li>• Identify the appropriate timing to adopt new ICT.</li> <li>• Plan the effective implementation of new ICT.</li> </ul>

Original



# Implication – what could this look like for ICT?

Proposed Competence Area Exposure Draft	Proposed Learning Outcome - Exposure Draft	Indicative Topic Areas (ITAs) may include:
(i) Business environment and organizational environment	(ii) Explain the impact of ICT developments on business and organizational environments.	<ul style="list-style-type: none"> <li>• How ICT can impact business models and drivers of value.</li> <li>• The impact of risks, processes and flows of data and information, to an organization.</li> <li>• The implications of technological, operational, security and business issues critical to maintenance of an ICT environment.</li> <li>• When an organization should seek advice from experts on the adoption and integration of ICT.</li> <li>• The advantages and disadvantages of data visualization tools.</li> <li>• The appropriate timing to adopt new ICT.</li> <li>• The effective implementation of new ICT</li> </ul>

New title

Revised approach

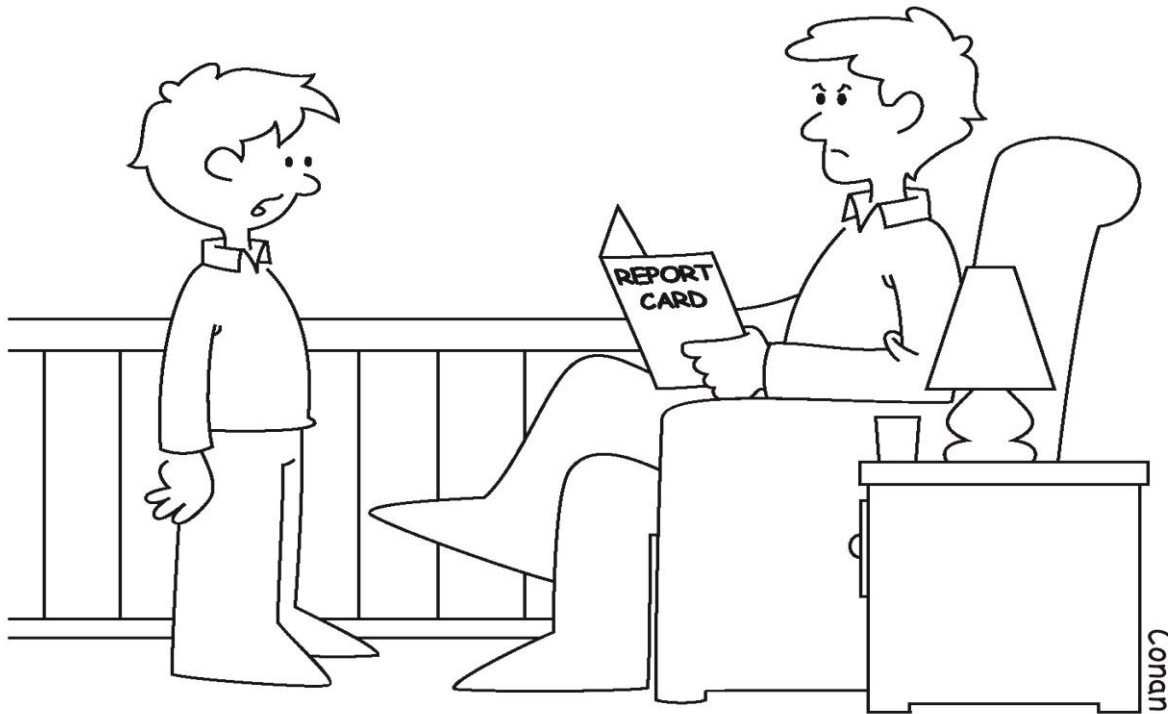
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Verbs removed

## QUESTIONS

- B. Do you agree with the planned presentation by which the NDLOs\* will be issued – reference Agenda Item 5-2?**
- C. Are there any NDLOs\* you consider to be inappropriate?**
- D. Are there significant enhancements to the NDLOs\* you recommend?**

**\* Potentially Indicative Topic Areas**



"But grades aren't the only way to measure learning outcomes."

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