



**Innovating  
with Technology**

The Challenge to Education Policy,  
Leadership and Management

# ICT Integration

## A Roadmap for Philippine Educational Institutions

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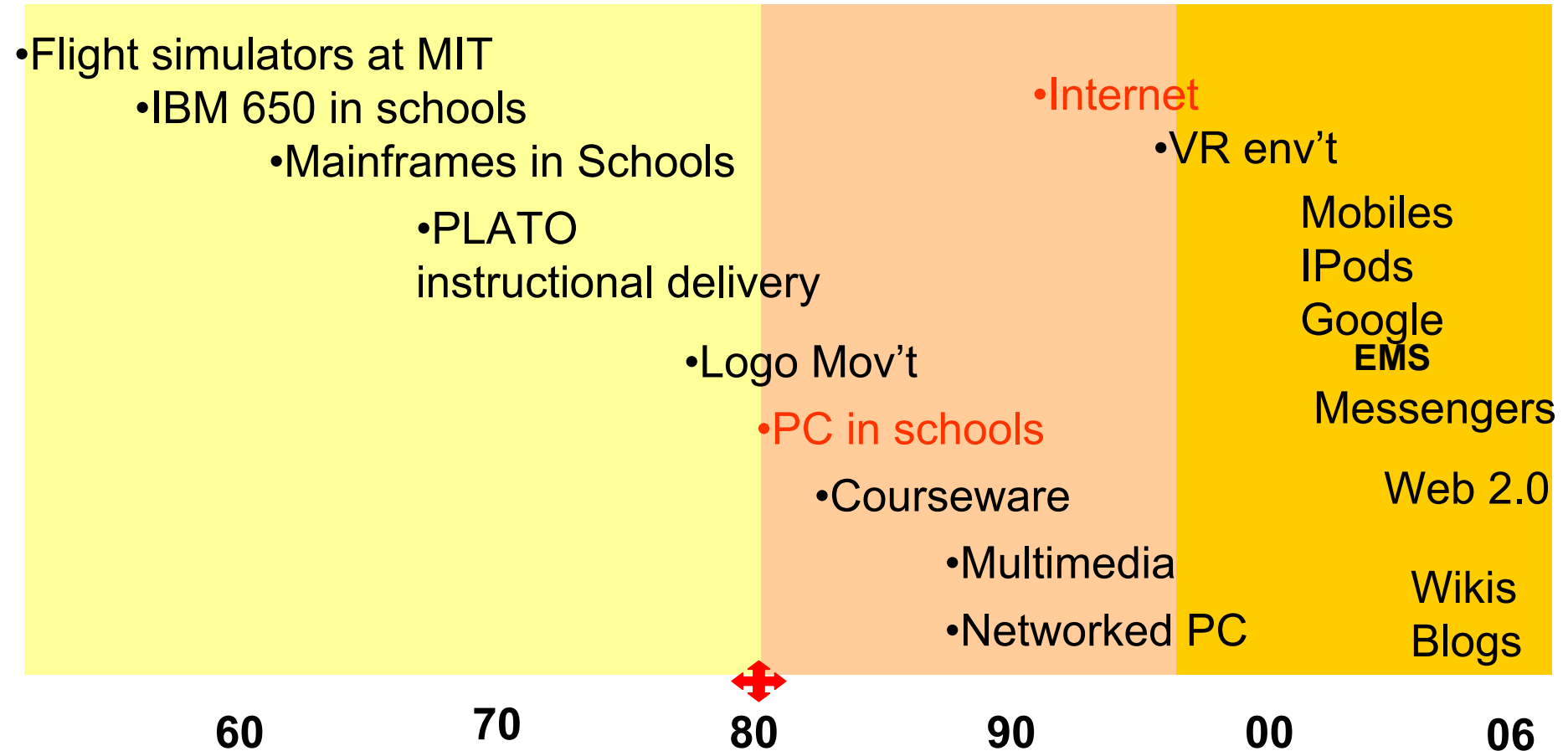
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**Cebu City, Philippines**

# Outline

- History of Computers in Education
- Technology Integration
- A Technology Integration Roadmap

# History of Computers in Education



# Year – Prevailing Wisdom -Rationale

- 1982 - Teach students to program in BASIC.
  - "It's the language that comes with your computer."
- 1984 - Teach students to program in LOGO.
  - "Teach students to think, not just program."

- 1986 - Teach with drill-and-practice
  - "Individualize instruction and systems. Increase test scores. "
- 1988 - Teach word-processing
  - "Use computers as tools as adults do."

- 1990 - Teach with curriculum specific tools
  - "Integrate the computers tools (e.g., history databases, science with the existing curriculum, simulators, data probes).
- 1992 - Teach multimedia and hypertext
  - "Change the curriculum-students programming. Learn best by creating products for an audience."

- 1994 - Teach with Internet
  - "Let students be part of real world." Communications.
- 1996 – Link learners to learning resources, encourage cooperative learning.
  - Self directed, Life-long Learning

- 1998 – Anytime, anywhere learning.
  - Internet Access widespread
- 2000 – Digital Literacy.
  - Students must be able to navigate their way in the digital world using digital devices.



- 2002 – Educational Management and Content Management Systems
  - On line enrolment and on line course materials
- 2004 – On Line Degrees
  - Schools grant full degree programs by delivering lessons via Internet
- 2005 – Participatory, Open and 24/7 learning
  - Wiki's , blogs, messengers, teleconferencing, mobile devices)

# Technology Integration

- the **use** of information and communication technologies for efficient school administration and effective teaching and learning.
- is a **continuous** process of upgrading technology infrastructure, updating competence and enhancing the work of students, teachers and administrators.

# Integration in Basic Schools

Acquisition

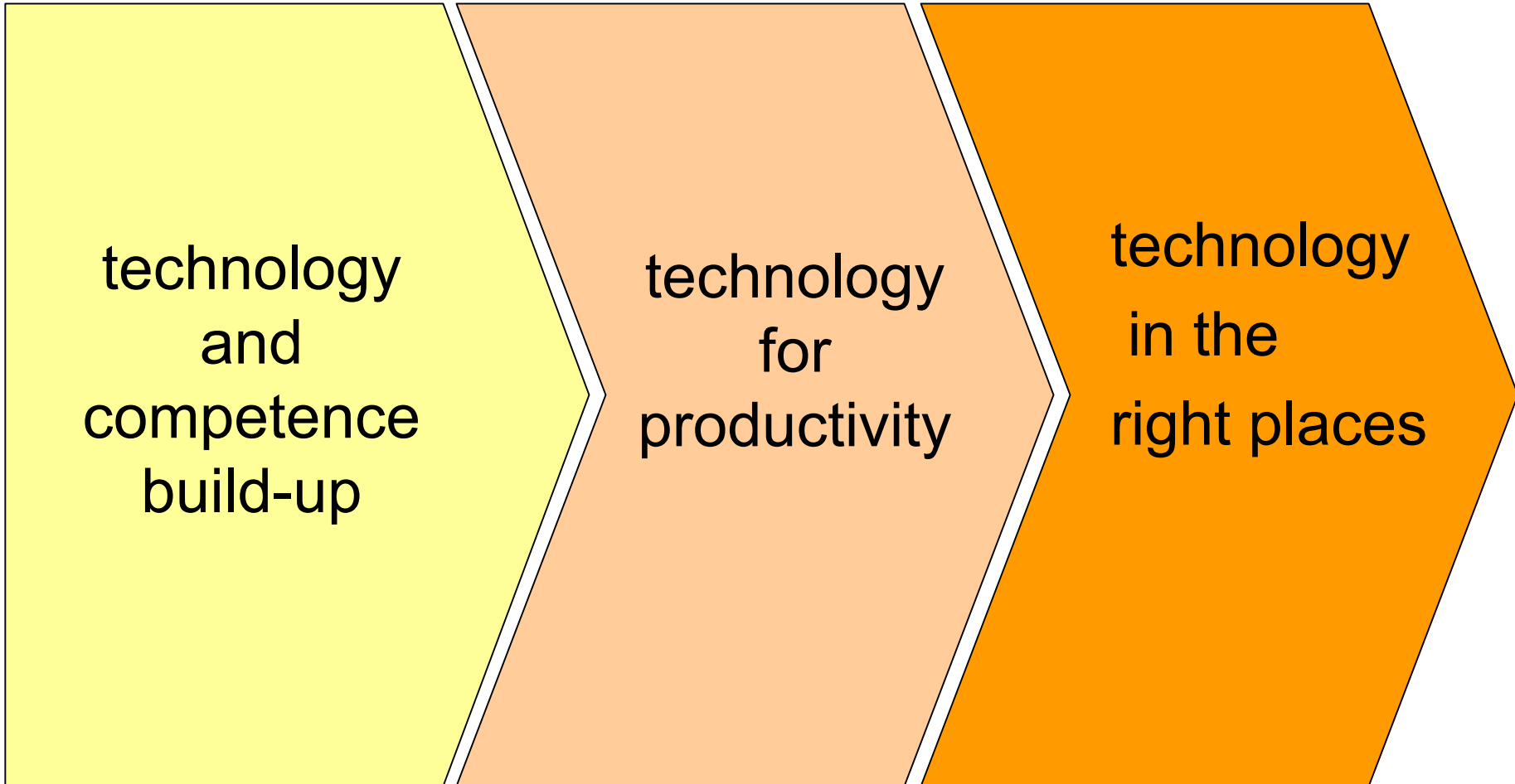
Utilization

Integration

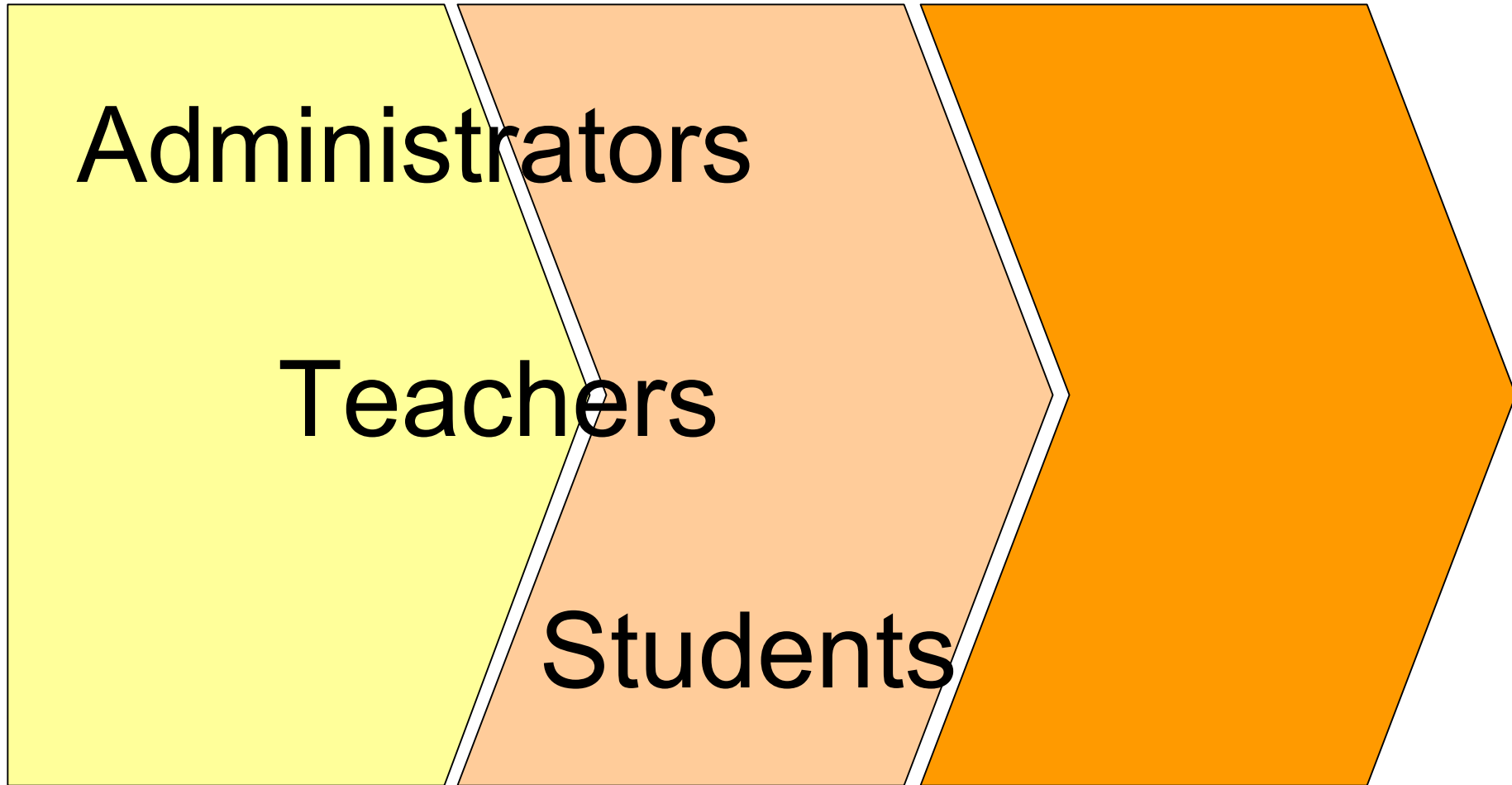
technology  
and  
competence  
build-up

technology  
for  
productivity

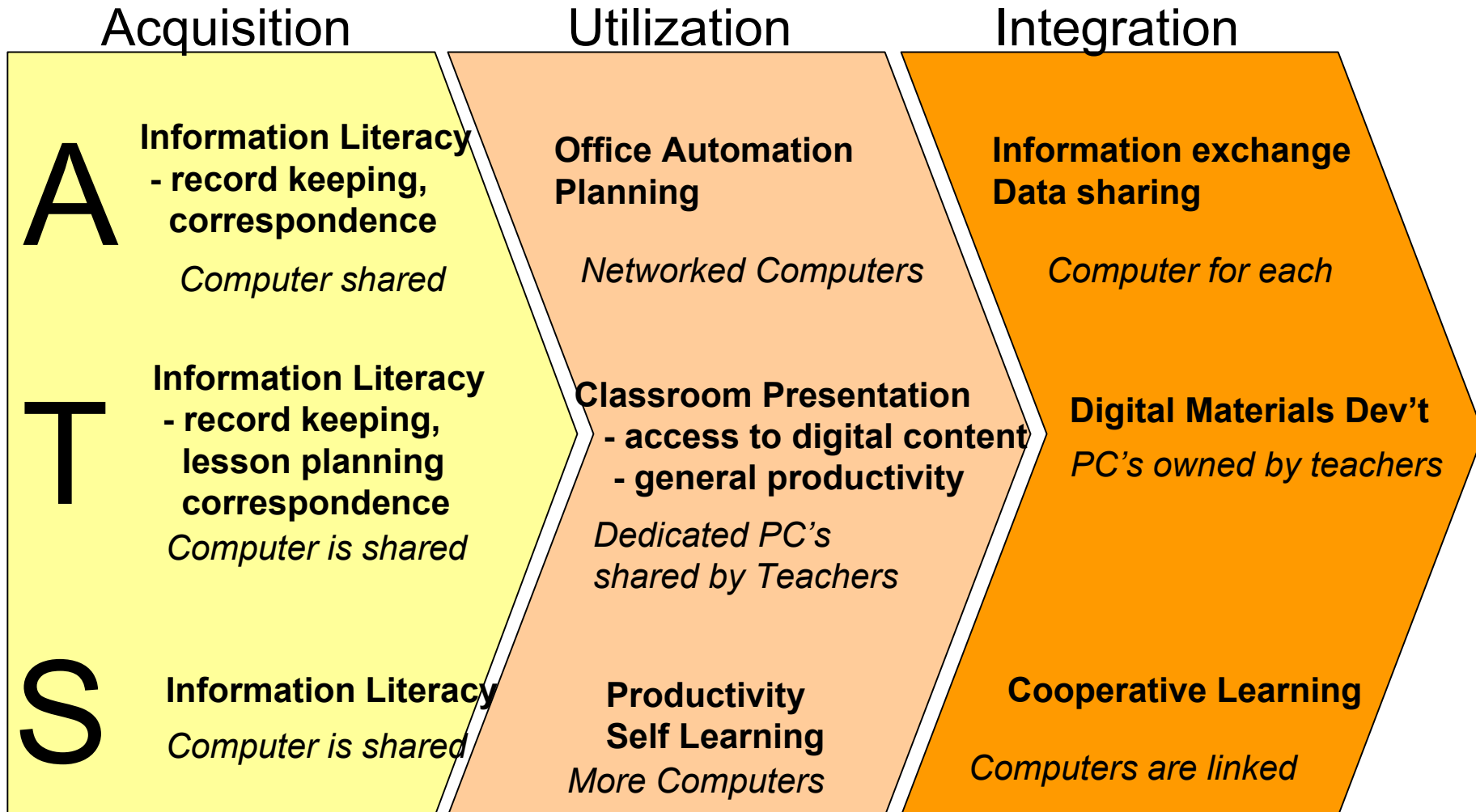
technology  
in the  
right places



# Users of Technology



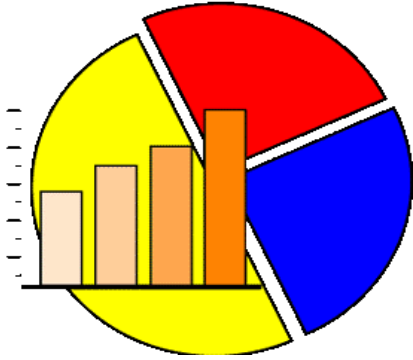
# Future Schools Program



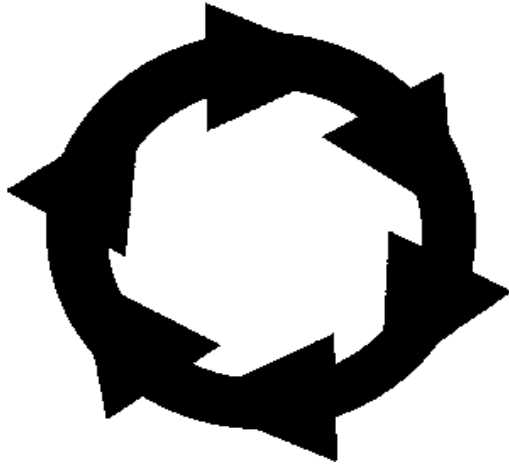
IT GOAL SETTING



EVALUATION & REVIEW



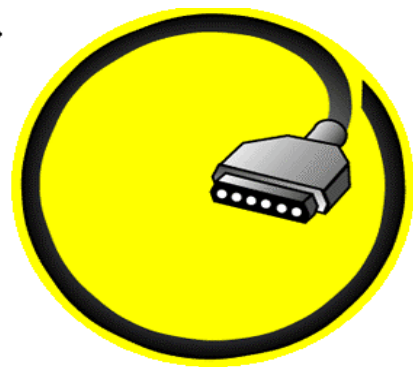
IT PLANNING



IT INTEGRATION



IT SKILLS UPGRADE



INFOSTRUCTURE SETTING/UPGRADE

IT SKILLS UPGRADE

# Using the Roadmap



# Closing

ICT will continue to expand our libraries and classrooms...

Good educators do not simply follow the fad, but constantly evaluate and adopt technologies that will be beneficial to their students and their schools...