

Emerging Technologies in Medical Education





Webinar 4- E-Learning in Medical Education The Role of Learner Support System

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Brief Historical Review

Correspondence Education

Isaac Pitman's shorthand course delivered by correspondence in England >> feedback about student's work >> encouragement

1844



University Correspondence College

Providing support to those studying with the University of London at a distance
William Briggs: wide range of support

1887



1858

University of London

Programs for external students
Link between study and place was broken



1946

University of South Africa

Anti-ethnic discrimination
Inadequate learner support
Introduction to LSS

OU UK

Development of learning and teaching media along with an integrated student support system
Personal tutor who give feedback and marks
260 study centers

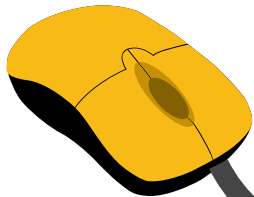
1969



2020

Learner Support System

Geography as an organizing factor >> removed,
Separation of student support from core subject based teaching ends.





Correspondence Learning



Distance Education



Open and Distance Learning



Flexible, Web-based and E-Learning

Changes of Technology & Terminology



Distance Learning

One of the most consistent problems associated with distance learning environments is a sense of isolation due to lack of interaction

(Bennett, Priest and Macpherson 1999; Harasim, Hiltz, Teles and Turoff, 1995)

>> attrition, instructional ineffectiveness, failing academic achievement

(Booher and Seiler, 1982)

>> negative attitudes and overall dissatisfaction with the learning experience

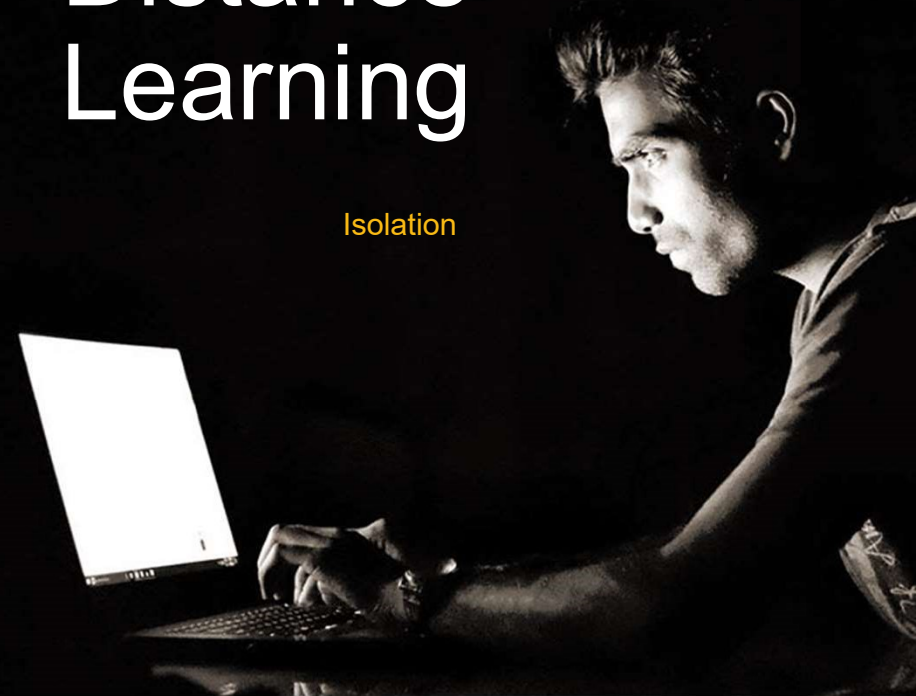
(Thompson, 1990)

This can negatively affect retention – students may drop out of a program or course because they do not feel part of a community

(DeVries and Wheeler, 1996)

Problems of Distance Learning

Isolation



Definition of LSS

Learner Support System

“The development and running of managerial processes to support the delivery of services to learners in ODL, where there is a high degree of invisibility, is not an easy task”.

Alan Tait

Learner support is a mechanism to help the learner to learn!!!



2020

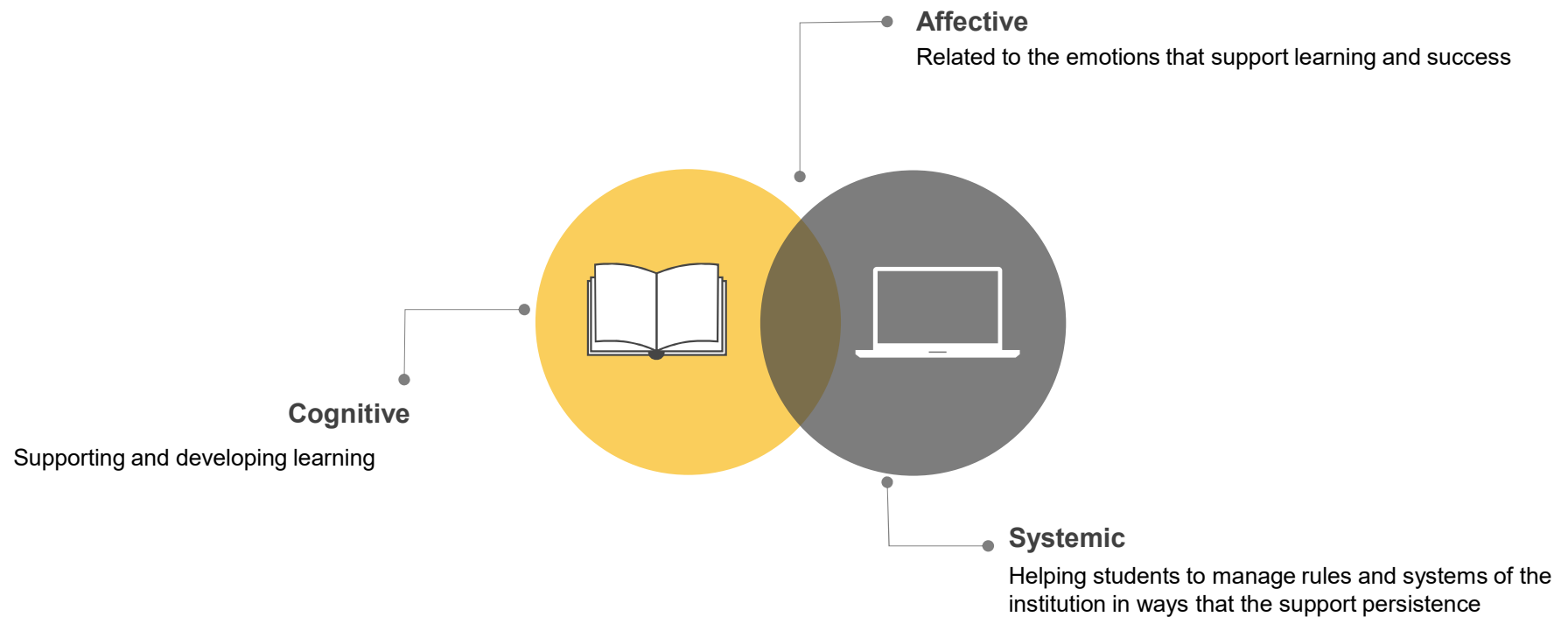
LSS

Objectives

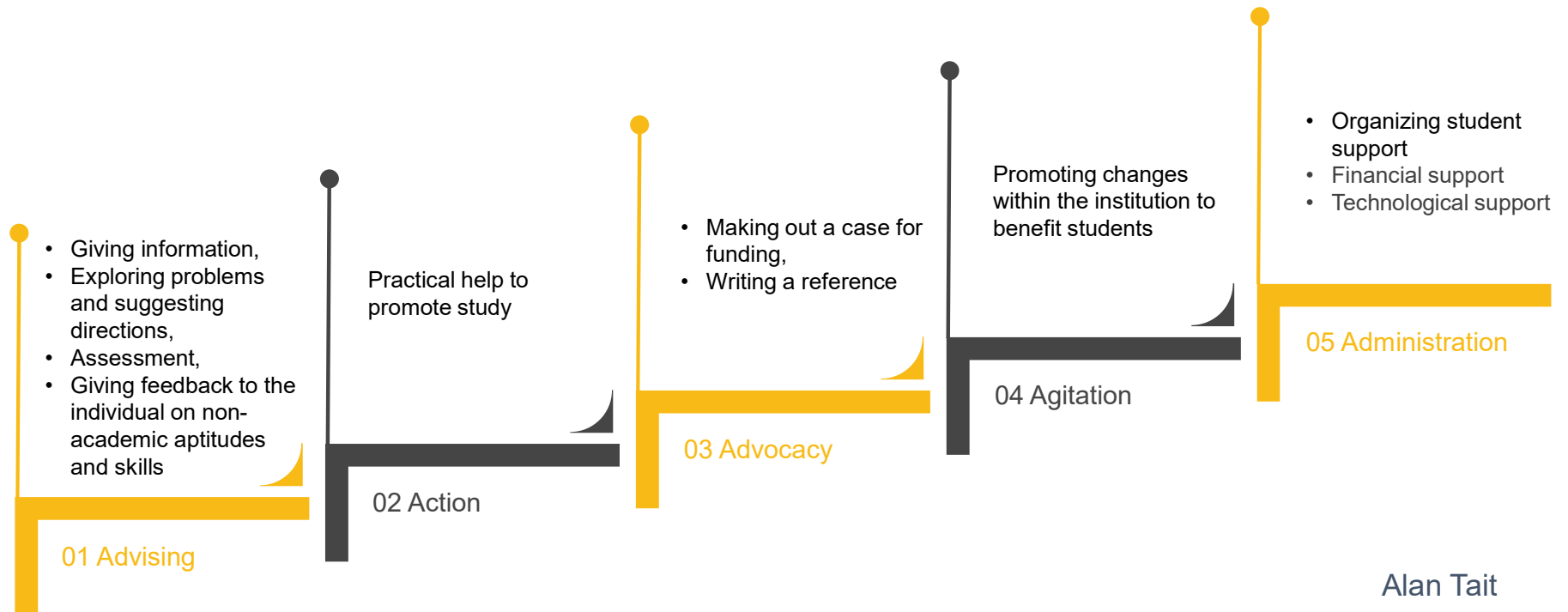
Student Support in ODL aims to

- Assist students to learn successfully,
- Help students with their feelings of confidence and self-esteem will energize them in ways that support persistence and success

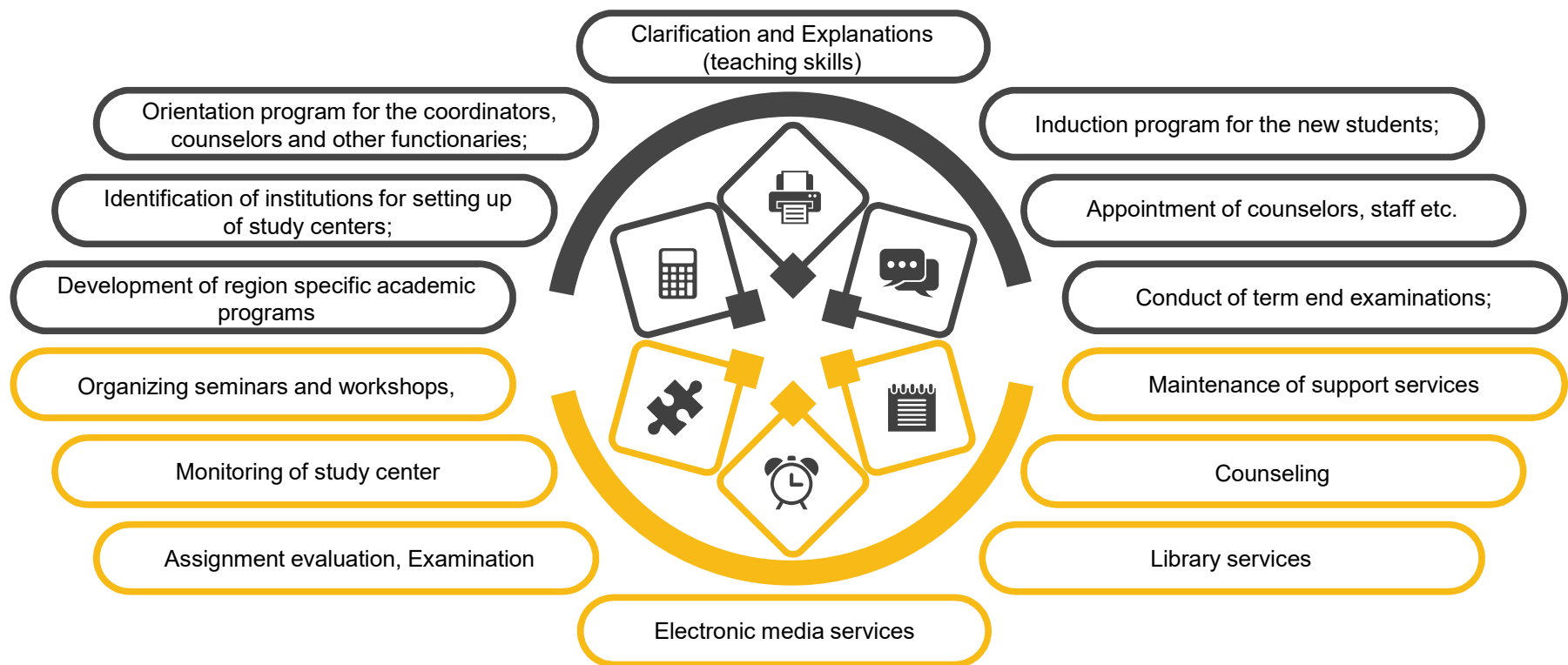
Rational for Student Support



Non-Academic Support



Academic Support



Benefits



- Greater technological infrastructures and money support
- Greater opportunities for student-student and student-tutor interaction
- Moving away from the behaviorism influence towards the constructivism
- Inclusion of Connectivism theory in learning process

3rd generation Distance Education



The Integration of Student Support with Teaching

Teaching had to be delivered in ways that permitted the person in the lighthouse to study successfully without coming off the rock on which on the lighthouse stood.

- ✓ The use of video embedded in course materials, supporting a wider range of learning styles and being effectively integrated with teaching and assessment;
- ✓ The development of computer-based conferencing beyond text to include oral and visual dimensions;
- ✓ The development of virtual scenarios, including science laboratories and health settings, to support real-life skills taught at a distance;
- ✓ The development of team and presentation skills in distance and e-learning environments. These skills are needed for remote use in many professional contexts;
- ✓ The creation by students of social media such as wikis, blogs, podcasts, and videos, and the use of peer-to-peer learning.

Profile

Move the preparation of teaching materials from content provision to the design of learning pathways

Online Teaching

Target

Students are more responsible for finding and evaluating sources, and creating resources

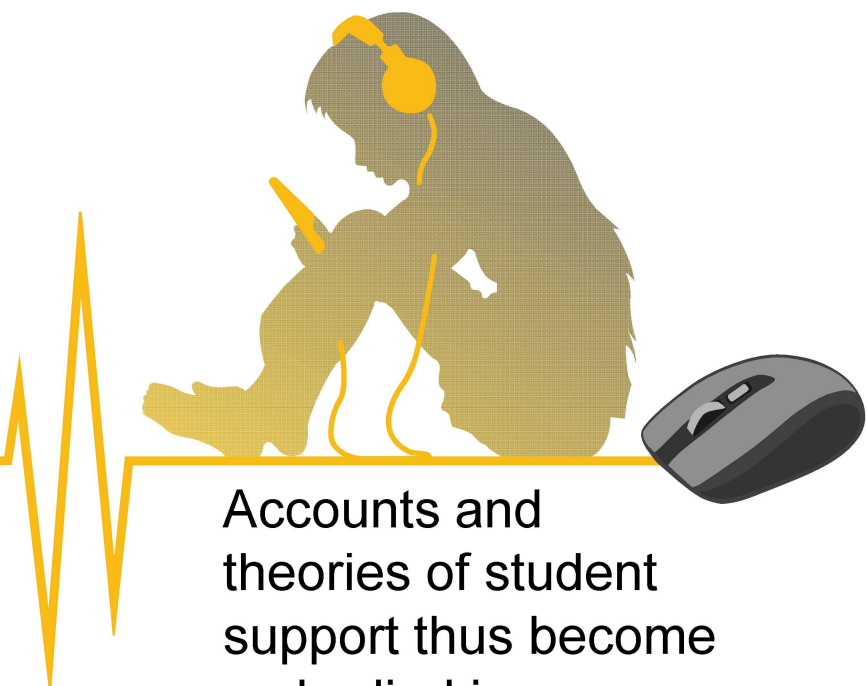
Learner Support System

In the 3rd generation distance education

Cost Learning design in online contexts integrate the learning and teaching strategy with learner support ## division of labor that separated them in second generation distance education.

Benefits

- Institutions pull themselves out of constructivist and towards connectivist pedagogy
- More effective possibilities in the digital era, of real-time data collection and intervention >> respond with offers of help where the student is not achieving learning outcomes



Accounts and theories of student support thus become embodied in accounts of learning design



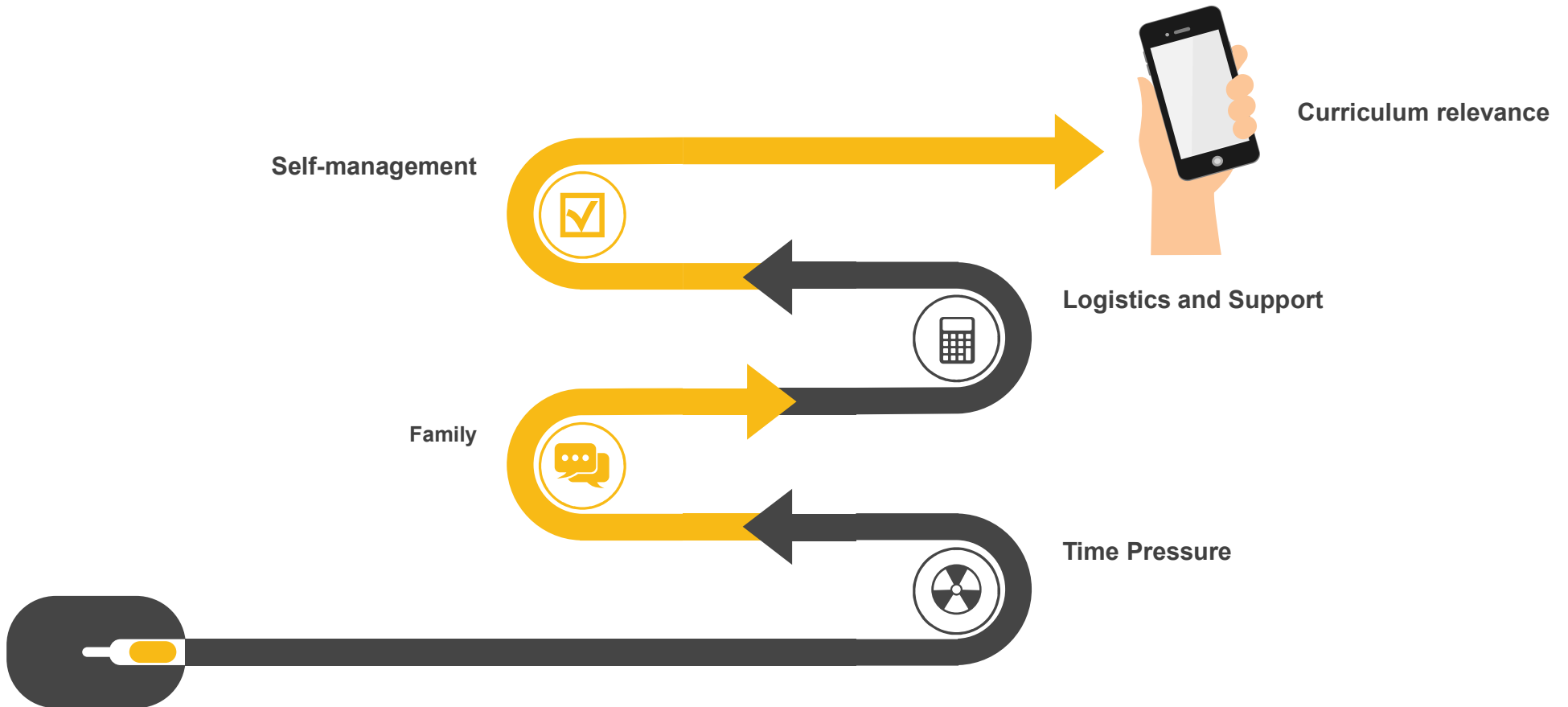
Risk of Failure & Student Support In the Digital Age

Need to challenge and reflect on the quality of the support students can have in an institution!!!

We have an obligation to help them achieve their goals as effectively as possible

We need to examine evidence from students, which indicate their understanding of the major causes of failure to progress in online learning

Challenges in LSS



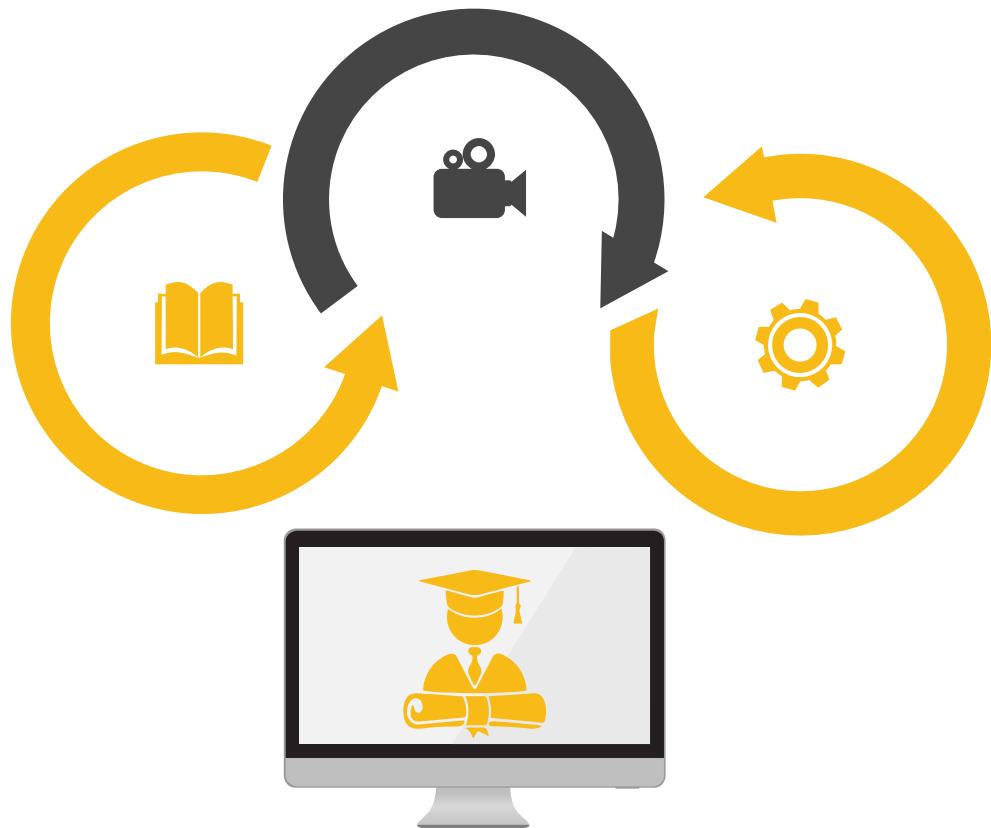
Scaffolding as a Conceptual Framework for LMS

How to succeed?

Scaffolding metaphor has extended beyond child-adult and novice-expert interaction
It is described as “*an opportunity for learning with and from others that applies potentially to all participants, and not simply to the less skillful or knowledgeable*”

(Wells as cited in Anton, 1999)

Scaffolding as a Conceptual Framework for LMS



Providing those types of support requires more than a technical infrastructure to serve up Web pages on demand

>>> It requires three interrelated elements

(Thorpe, 2001)

Identity



The learner interact with learner support services personnel on a one-to-one basis

Individualization



The interaction is individualized, based on the specific needs and goals of the learner

Interpersonal interaction

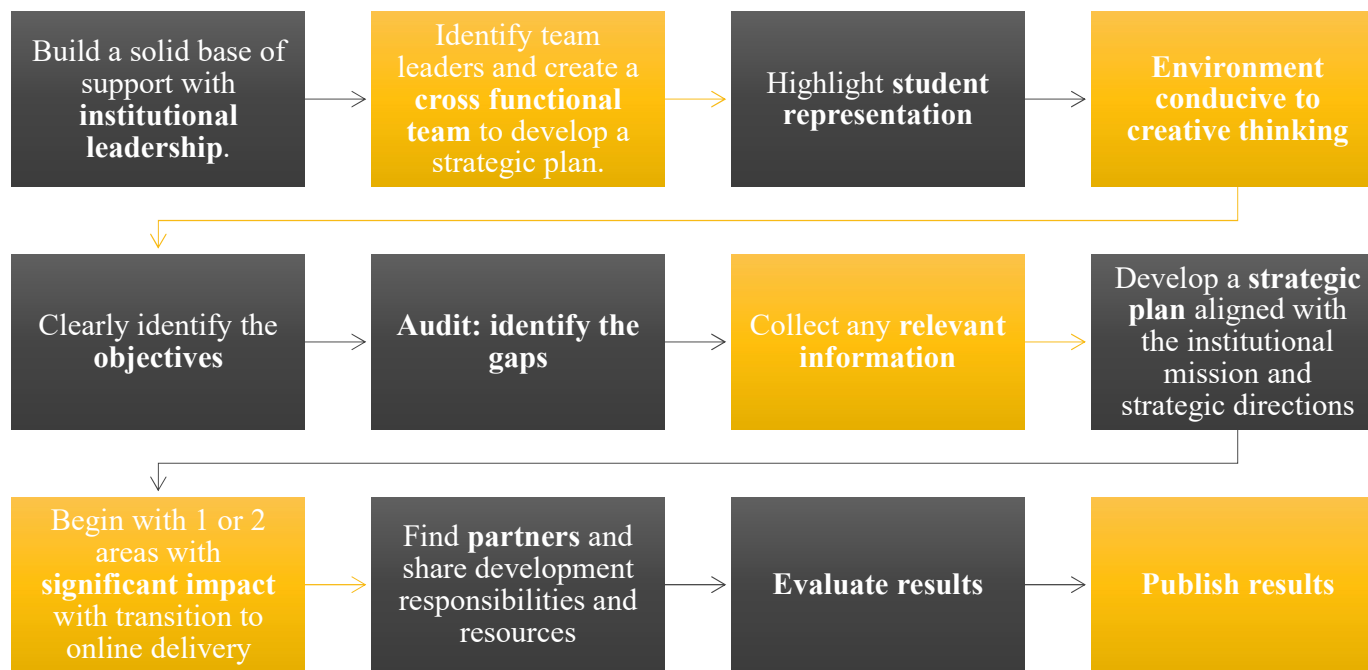


The interaction is mutual and reciprocal, with learning and performance as goals rather than simply information delivery

Characteristics of Effective Online LSS



Steps to Building Effective Online LMS





Before going...

The basic DNA of good learning experiences is trying to do something and getting feedback

Julie Dirksen



#pray_for_beirut



THANK YOU

- Hussein Ziab, 2020 -

