



An Exploratory Research of Developing a “Learner-centered” OCW framework in perspectives of OER

OER

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Outline of Presentation

- **Development and new trend in higher education**
 - from **OCW** to **OER** (Open Educational Resources)
- **Fu Jen OCW**
- **Conceptual framework of Problem-initiated OER**
- **Challenges & Opportunities**



Trend from OCW to OER

OCW initiated Open Education movement,
and **OER** extend it...

	Occasion	Achievement
UNESCO 2002	Forum on the Impact of OCW for Higher Education in Developing Countries	Initiative of “ Open Educational Resources ” (OER)
UNESCO 2004	Second Global Forum on International Quality Assurance, Accreditation, and the Recognition of Qualifications	<ul style="list-style-type: none">• Stated “Open Educational Resources champions the sharing of knowledge worldwide to increase human intellectual capacity.”• Definitions of OER are:<ul style="list-style-type: none">– Learning resources– Resources to support teachers– Resources to assure the quality of education and educational practices.

Fu Jen Catholic University History and background



- Founded in **Beijing in 1925** by the Benedictines of St. Vincent Archabbey (Roman Catholic Church) and **re-established in 1961 in Taipei** (3 religious orders).
- Has been growing from a liberal arts college into a comprehensive university.
 - with **26,000** students and **700** full time faculty.
 - have **11** colleges, including ,a medical school, a law school, a liberal arts college.
- *Launched OCW in 2008*
 - Supported by **Teaching Excellence Initiative** by Ministry of Education.



Fu Jen Mission & Purpose

- **History**

- Fu-Jen joined **TOCWC** & initiated **OCW**:
November, **2008**

- **Initiative goal**

- **Academic sharing**

- **Three developmental stages**

- Academic **Sharing** (2009~)
- **To Attract** international learners (2011~)
- Reputation **promotion** (2012~)

The screenshot displays the Fu Jen Open CourseWare (OCW) website. The main content area lists various courses under the heading '開放式課程'. A detailed view of a course titled '哲學諮詢方法論' (Philosophy Consultation Methodology) is shown, including a video of a professor, learning objectives, and a list of related courses.

年級	課程	相關科目
一	西洋哲學史(一)	【哲學概論】【中國哲學史(一)】【理則學】【大一哲學討論】
二	中國哲學史(二)	【形上學】【西洋哲學史(二)】【知識論】【自然哲學】【大二哲學討論】
三	兒童哲學: 理論與實踐	【中國哲學史(二)】【理則學】【哲學諮詢方法論】【宗教哲學名著選讀】
四	兒童哲學: 理論與實踐	【宗教哲學】【哲學史】【馬克思主義的哲學】【輔導與諮商-理論與實踐】【從事行健學】
五	輔導與諮商-理論與實踐(二)	【行動哲學】【先秦名學】【新馬克思主義當代思潮】【五經思想】
六	社會倫理學	【當代倫理學】【儒家倫理學】【社會哲學】【佛學概論】【佛學概論】【宗理學】【現象學】
七	當代中國哲學	【文化哲學】【多瑪斯哲學】【存在主義】【詮釋學】【政治哲學】【儒家哲學】
八	現代哲學	【道家哲學】【古希臘倫理學】【哲學諮詢-理論與實踐】【出土文獻思想】【南唐佛學: 禪宗】
九	哲學諮詢-實踐	【康誥】

Current Situation in Fu Jen OCW

- Platform: Moodle
- Types of instructors: administrators or OTA teachers
- Types of Courses:

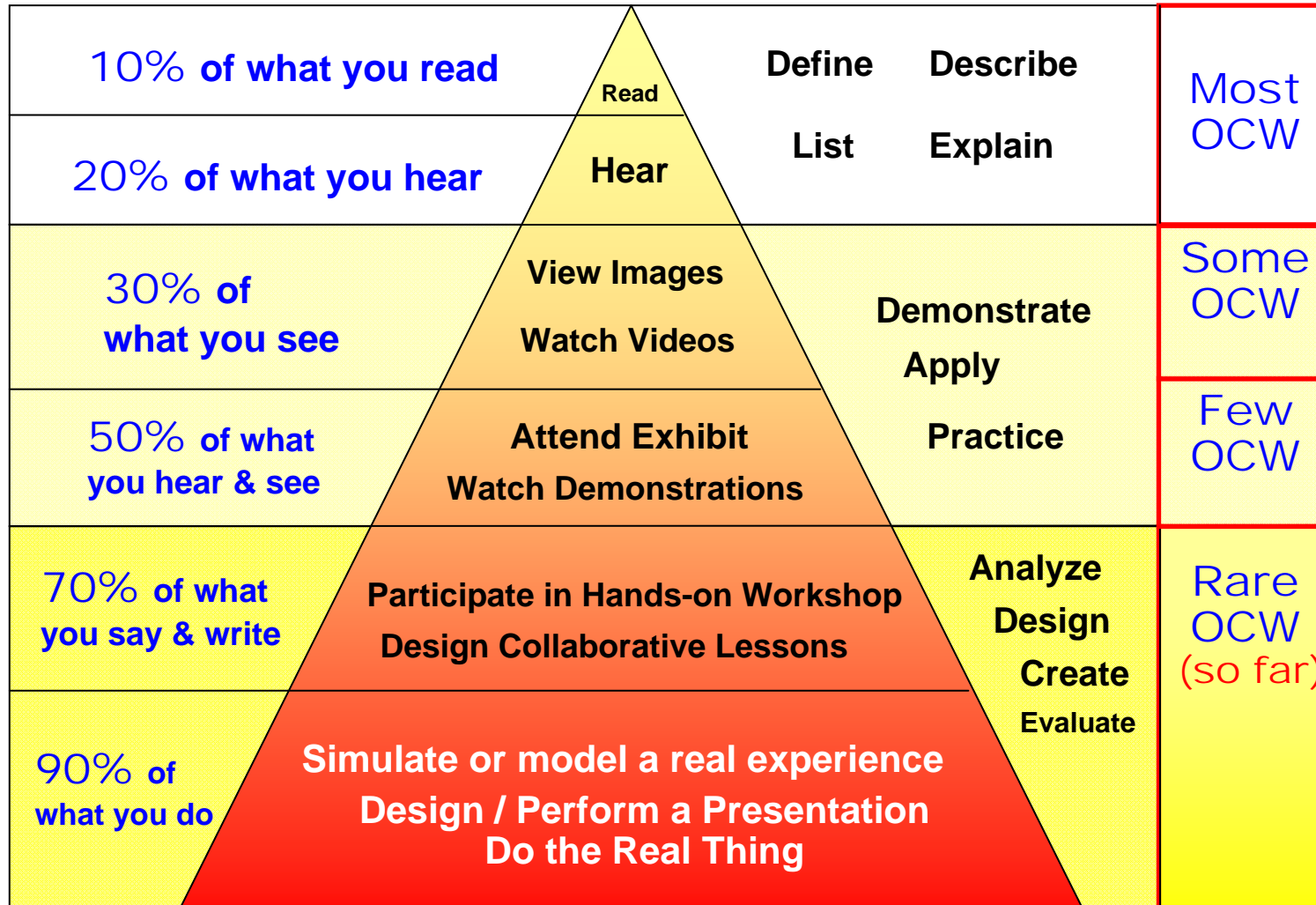
2008-2009: 10 courses	2009-2010: 7-10 courses
<ul style="list-style-type: none">• Business Ethic• Methodology & Philosophical Counseling• Cognitive Psychology• Web found• Economic• English literature• I/O Psychology..., etc.	<ul style="list-style-type: none">• Research Methodology• Multivariate statistical analysis• Theories of mandarin instruction• Children & Family• Culture• Aesthetics• Law...,etc. <p>22 courses available (in Chinese)</p>

<http://ocw.fju.edu.tw/>

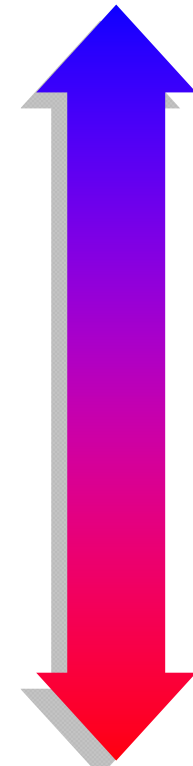
OCW in Cone of Experience perspective

People generally remember...

People are able to...

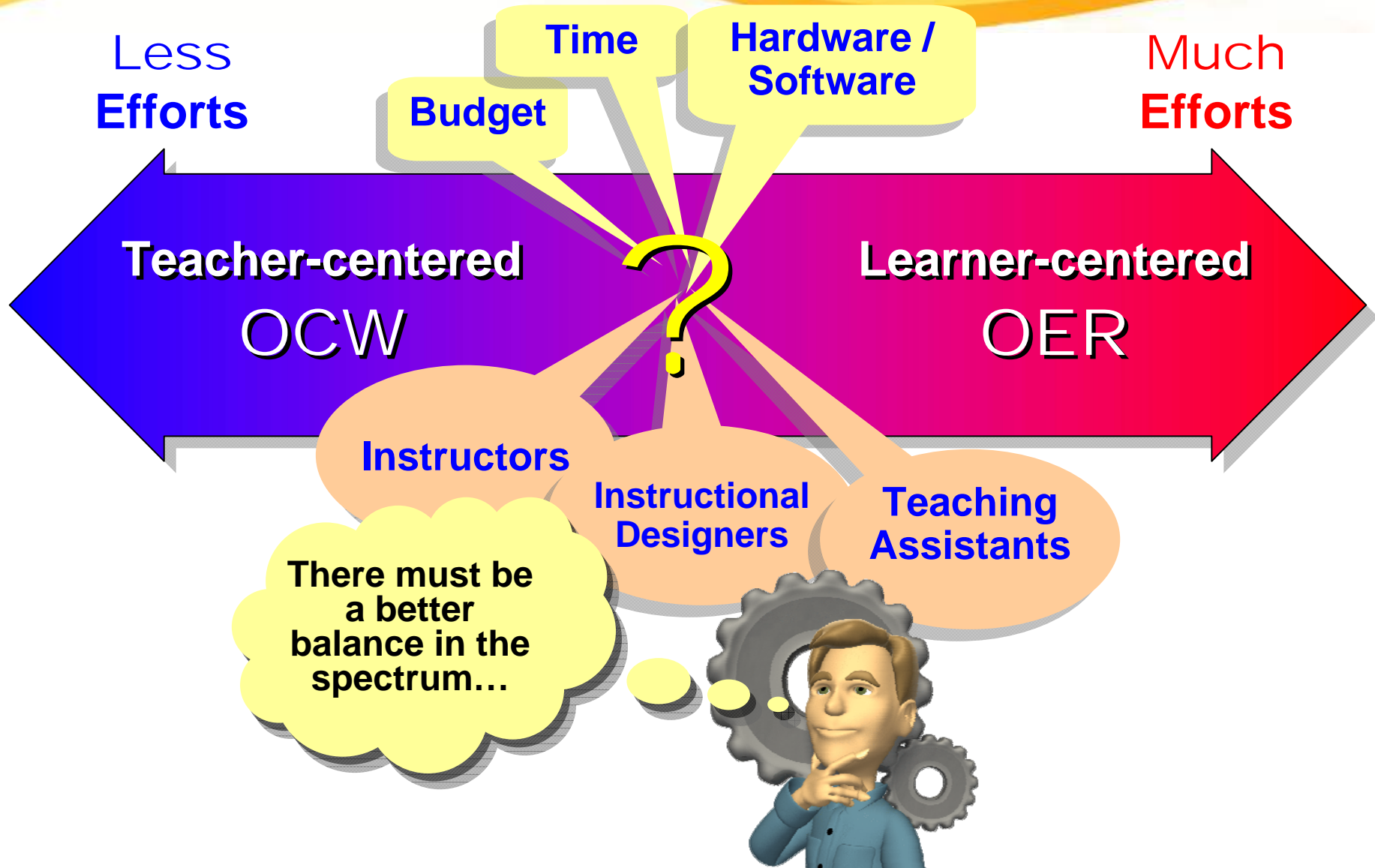


Less ID efforts



Much ID efforts

Instructional design efforts tradeoff in OCW/OER implementation



e-Learning Trends

	e-Learning 1.0	e-Learning 1.3	e-Learning 2.0
Main Components	Courseware, LMS, authoring tool	Reference hybrids, LCMS, Discussion groups	Wiki, Social Networking & Bookmarking, Add-ins, Mash-ups
Ownership	Top-down, One-way	Top-down, collaborative	Bottom-up, learning-driven, Peer learning
Development Time	Long	Rapid	None
Content Size	90 minutes	15 minutes	1 minute
Access Time	Offline work	Online work	During work
Delivery	At One Time	In many pieces	When You need it
Content Access	LMS	e-Mail	Search, RSS feed
Driver	Instructional Designer	Learner	Worker
Content Creator	Instructional Designer	SME (Subject Mater Expert)	User
Training's Role	Gourmet Chef	Short-order Cook	Food critic

Source: Tony Karrer(2006), e-Learning 1.0 vs. 2.0 – Help Needed: e-Learning Technology

How can the OCW learners being Motivated & learning *MORE* ?

- Teacher profile
- Course description
- Syllabi
- Teaching notes
- Lecture audios
- Lecture videos
- Subject matter references
- **Domain-critical problems raised !**



ID Perspectives of Problem-initiated teaching

- **Paradigm shift from teaching to learning** in undergraduate education
 - Robert Barr, 1995
 - **Resource-based learning**
 - Hambleton, 1992
 - **Anchored instruction**
 - Cognition & Technology Group at Vanderbilt, 1990
 - **Problem / Project-based learning**
 - Howard Barrows, 1986
 - **Discovery instruction**
 - Jerome Bruner, 1961
 - **Problem solving thinking**
 - John Dewey, 1933
- **Problem-initiated OER**

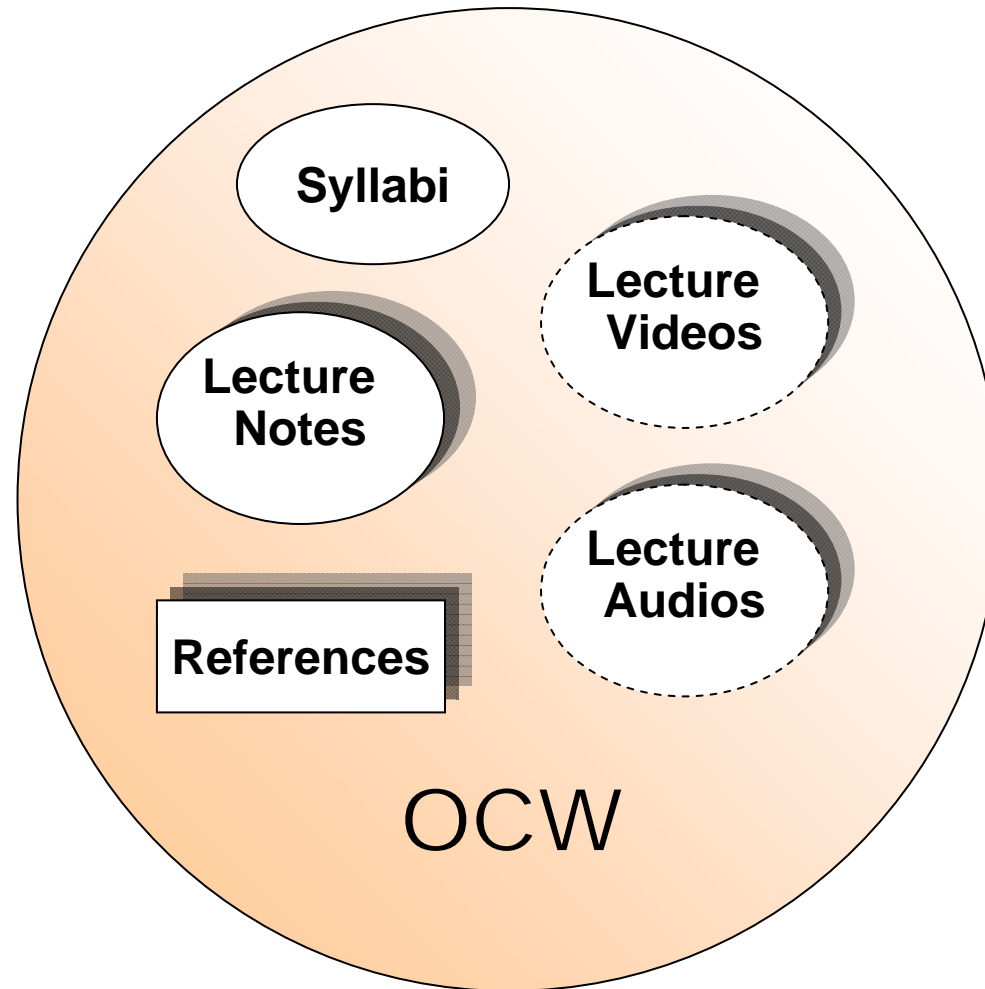


Problem-initiated OER

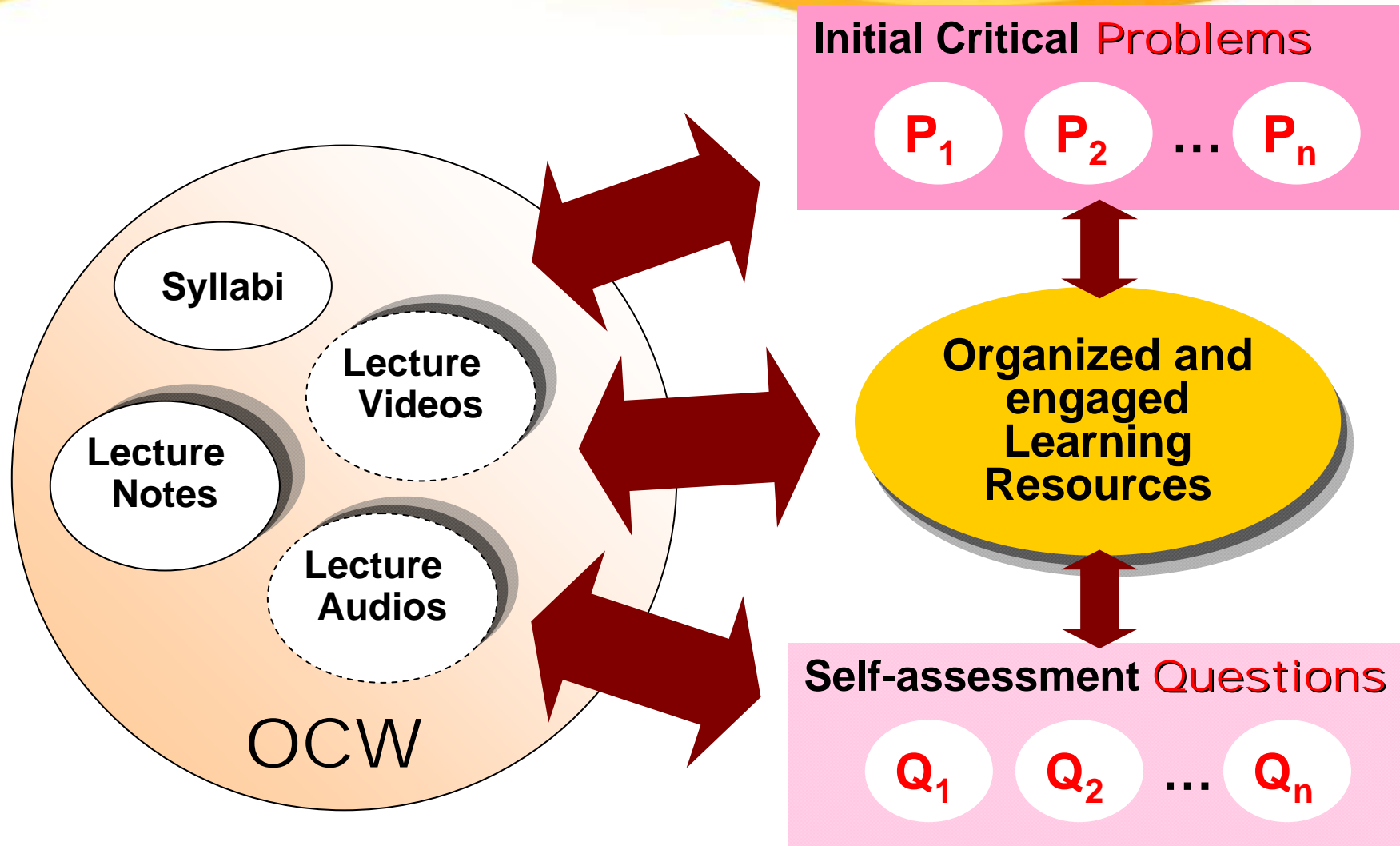
- Engaging **self-regulated learners** in solving **problems** and questions, as to perform a motivated learning.
- **Initiated “P’s”** → practical domain **problems**
 - Connect to **learning objectives**
 - Clarify **Misconception**
 - Engage domain knowledge with practical **problem solving**
- **Formative & summative “Q’s”**
→ self-assessment **questions**
 - Reemphasize **critical issues**
 - Verify self-regulated **learning performance**.

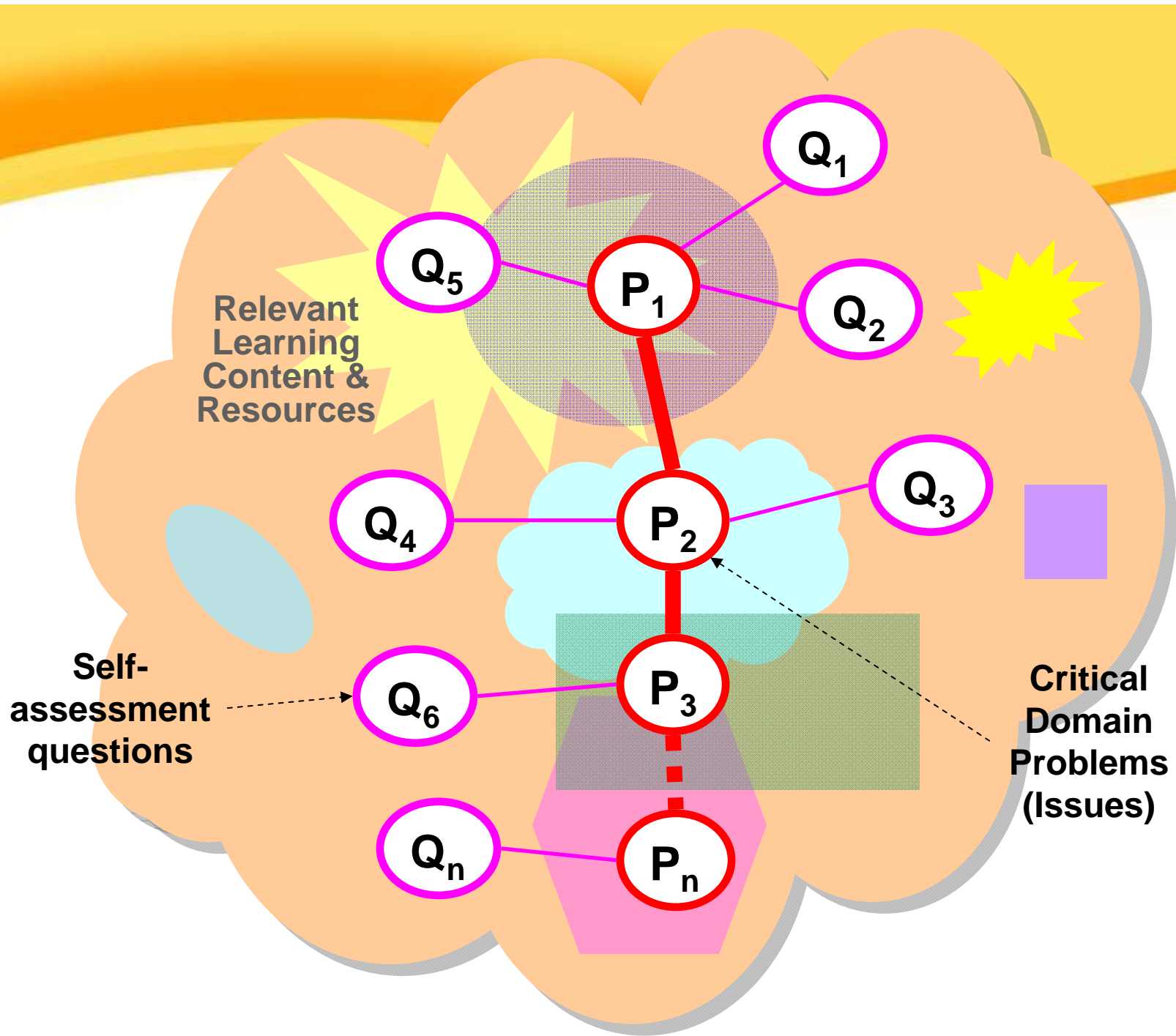


General OCW



Problem-initiated OER





Template shift

Current OCW Framework

Course Description
Objectives
Concept Map
Disciplinary Courses framework
Competencies Fostered
Grading Plan
Reference Reading Lists (Books)
Lecture Notes / Audios / Videos

P/Q-initiated OER Framework

Course Description
Objectives
Concept Map
★ Learning Guideline
Disciplinary Courses framework
Competencies Fostered
Grading Plan
Reference Reading Lists (Books)
★ Initiated Problems
Lecture Notes / Audios / Videos
★ Self assessment Questions
★ Heuristic online Resources



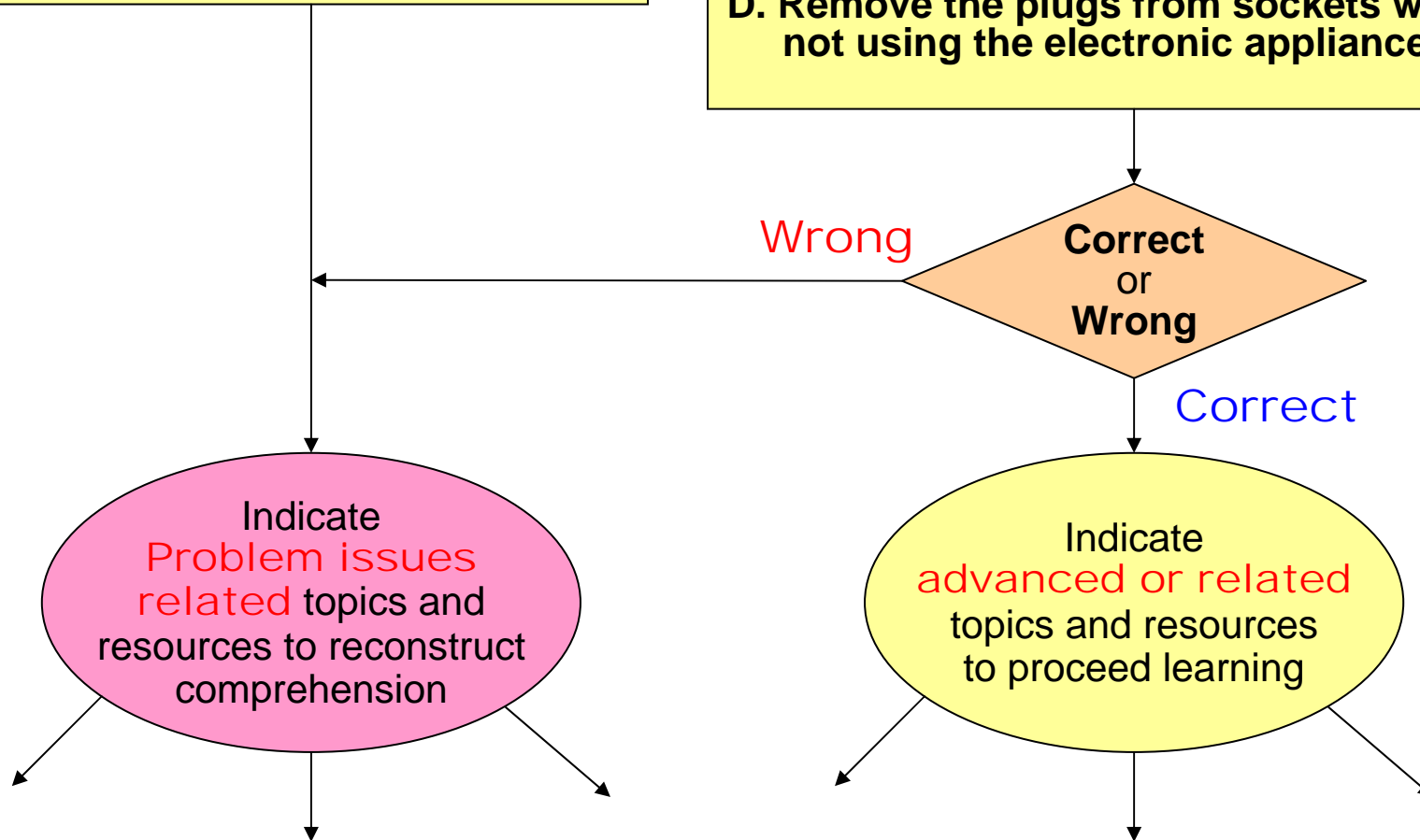
★ : New added components

Subject: About Global Warming

P:
What will be the impacts if global average temperature increase one degree?

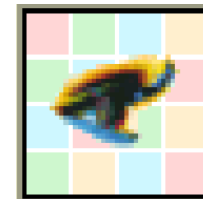
Q:
which of the next individual behaviors will do the most contribution to reduce the impact of global warming?

- A. Utilizing public transportation
- B. Fix the air conditioner temperature at 28
- C. Becoming a vegetarian.
- D. Remove the plugs from sockets while not using the electronic appliance.



Authoring tools utilization

- Potential **authoring tools** for composing attractive **P's**, **Q's** and content
 - **Powerpoint** (basis)
 - **Hot potatoes** (freeware)
 - **Wink** (freeware)
 - **Xmind** (freeware version)
 - Adobe Captivate
 - Articulate QuizMaker
 - *and more...*



Rich Online Heuristic Resources

You Tube

TED Ideas worth spreading

 **ACADEMIC EARTH**


commoncraft

videojug
get good at life

**big
think**.com

Howcast

CosmoLearning

CW TV 天下雜誌群影音頻道
Commonwealth Magazine 天下雜誌 Cheers 天下親子天下

and more...

Challenges & Opportunities

Challenges

- **Faculty efforts**
 - Instructors and **Instructional designers**
 - Teaching assistants
- **Instructional design efforts**
 - Critical problems **identification**
 - Effective questions **design**
 - **Context** to cohere problem, questions and content knowledge.
- **Domain learning resources aggregation and alignment.**

OCW → OER
Teacher → Learner

Opportunities

- Much **instructional design** realized in **OER**.
- Better **performances** for self-regulated learners.



Thanks for listening

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