

Jumping the Hurdles

Constraints to e-learning uptake
(and how they can overcome)



E-Learning uptake...

- E-tools have been available for a number of years...
- Most people know about them...but incorporation is slow
- What are some of the barriers from the **tutor's** perspective...?



My own observations...

- LMS used by many just to supply lecture notes, handouts and overheads or post notices.
- Regarding my own work with interactive problem-based scenarios. Lots of enthusiasm but little use by colleagues.



Barriers from the individual tutor's perspective...

Assuming some barriers are already overcome...

- The tools are available
- A delivery system is in place,
- The tutors are intrinsically interested (**not anti-technology luddites**)

The First Barrier – Motivation



- Q. Incorporating e-learning is likely to improve my teaching, but what's the return on my "time" investment?

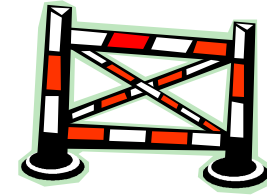
The First Barrier – Motivation



Climbing over this barrier needs...

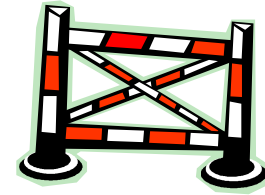
- Carrot
 - Job/personal/student satisfaction
 - Promotion and peer-esteem
 - Encouragement from higher powers
- Stick
 - Non-promotion
 - Complaints from students/Loss of students
 - Displeasure from higher powers
 - Peer-sneer

The First Barrier – Motivation



- Can be a particular problem at Universities as academic staff are increasingly being employed as researchers first and teachers second.
- The PBRF score is a strong personal and institutional driver.

The Second Barrier – Unfamiliarity



- Must become familiar with the technology **AND** familiar with the paradigm the tools facilitate?

Climbing over this barrier needs...

- Guided information
- Training
- Examples
- **Time** to learn and absorb

The Third Barrier – Changing the course



- Embedding the technologies in your course by designing/redesigning courses

Climbing over this barrier needs...

- Designers/Graphic artists/video editors/IT people
- **Time** to redesign the course (or a segment of the course)

Barriers to e-learning

Even to the motivated teacher, TIME is a major issue.





Barriers to e-learning

- The literature supports that TIME is a major barrier...
 - Rogers, P.L., 2000, Barriers to Adopting Emerging Technologies in Education. Journal of Educational Computing Research 22 (4): 455-472
- My own research also supports this..

eCDF Project

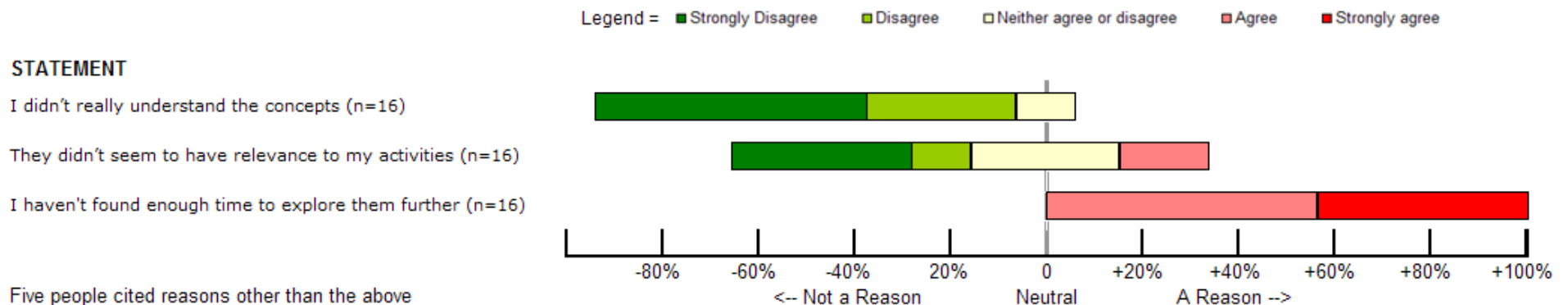
- Tools for interactive scenarios/workbooks
- Workshops and Seminars given on roll out



Follow up Survey (1)...

- Web-survey conducted amongst Seminar/Workshop attendees 5-8 months after event
- Respondents = 46 (approx 18% of attendees). Of those...
 - 21 hadn't explored the eCDF package further (and selected some reasons why)
 - 25 took a closer look (and gave some opinions on intended use and barriers)
- Some preliminary results...

Chart 1 - Reasons for not assessing the eCDF package (PBLi and Challenge FRAP) post-workshop/seminar (n=21)



Five people cited reasons other than the above
 Comments showed at least 2 of these had an understanding of the package and it was relevant to 1.

Follow up Survey (2)...

Chart 3
Opinions on barriers to Adopting PBL-interactive for Classwork
 from those who have assessed the software package post workshop/seminar (n=25)

STATEMENT

No time for teachers to develop scenarios and embed them in courses. (n=23) (no opinion = 2)

Software is too complicated to use. (n=21) (no opinion = 4)

Manuals are too hard to follow. (n=18) (no opinion = 7)

Help files not detailed enough (n=17) (no opinion = 8)

No support from information technology services (n=19) (no opinion = 6)

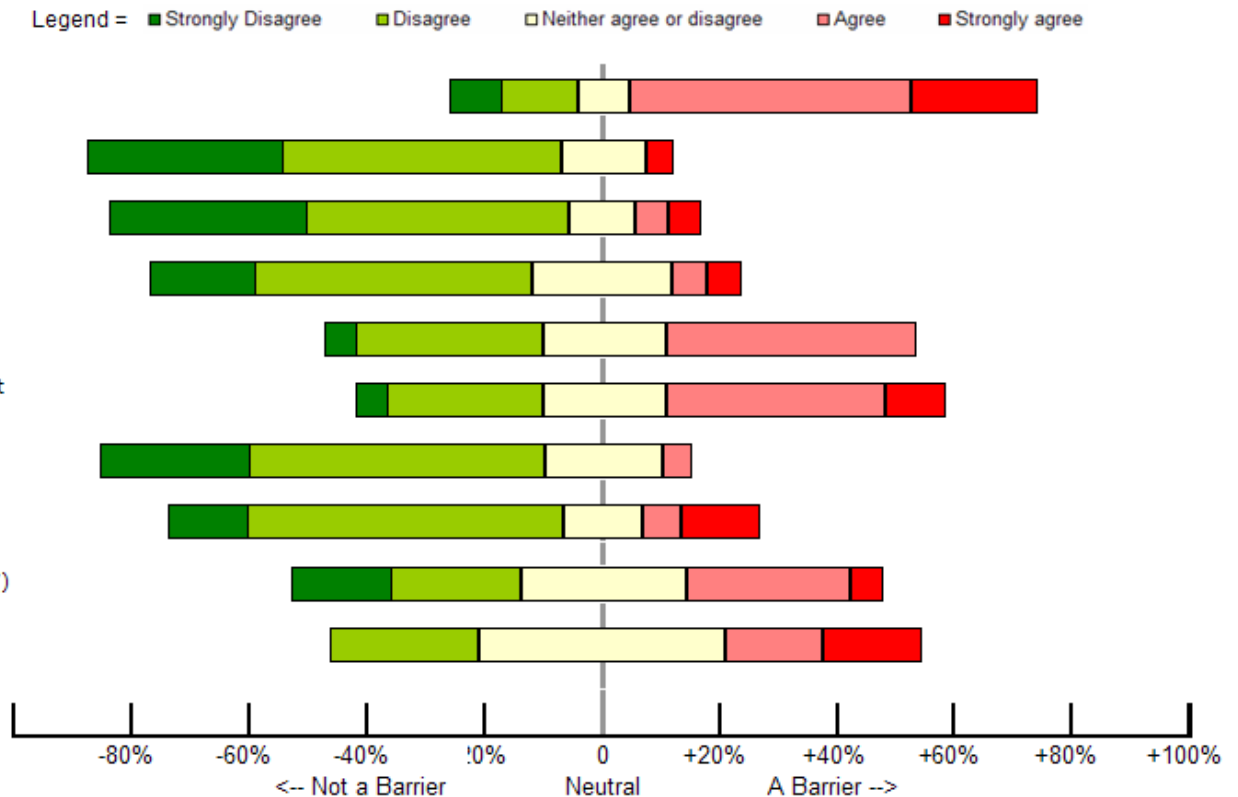
No support (courseware developers/graphic designers) to assist teachers in developing scenarios. (n=19) (no opinion = 6)

Not enough examples provided. (n=20) (no opinion = 5)

Not enough icons provided. (n=15) (no opinion = 10)

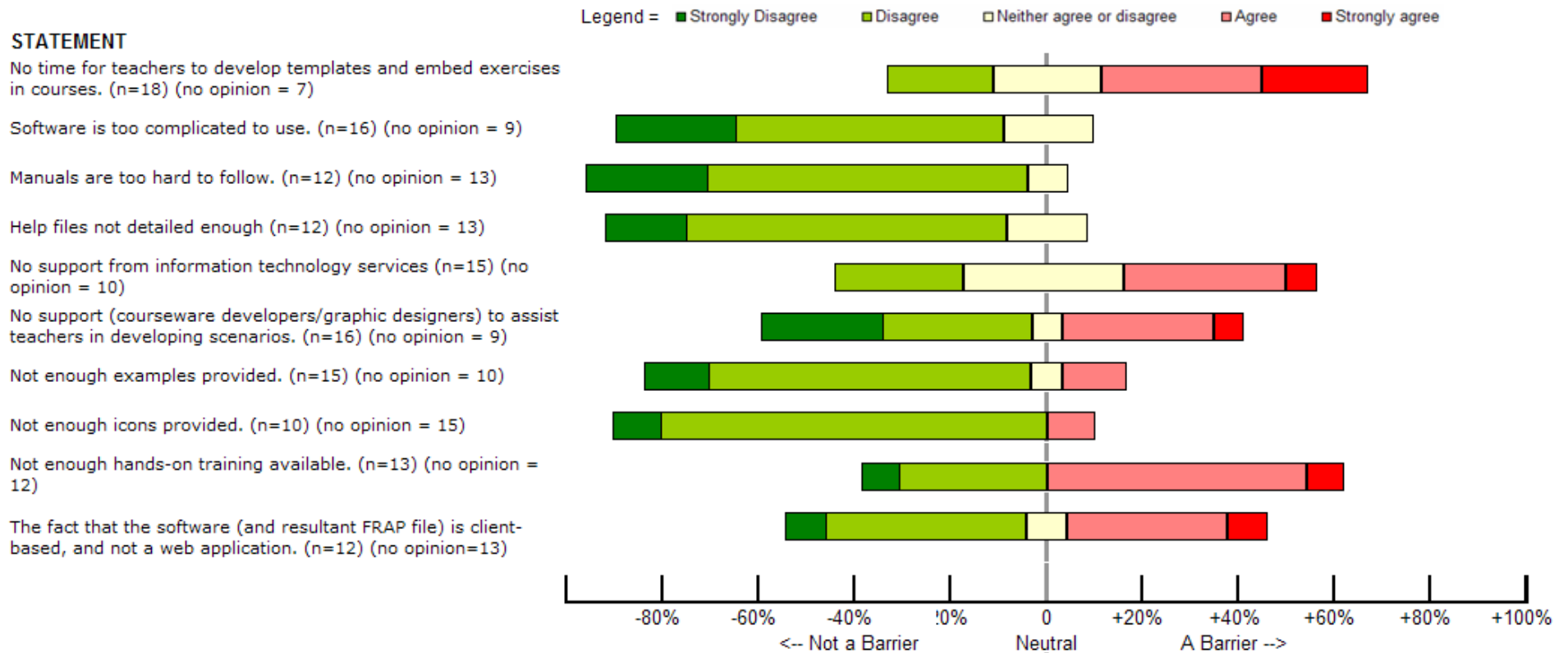
Not enough hands-on training available. (n=18) (no opinion = 7)

Student authentication and registration for the Server-based player is not integrated into our Learning Management system (e.g. WebCT/Blackboard or Moodle). (n=12) (no opinion=13)



Follow up Survey (3)...

Chart 5
Opinions on barriers to Adopting Challenge FRAP for Classwork
from those who have assessed the software package post workshop/seminar (n=25)





Conclusion?

Giving tutors...

- more time (less teaching/admin)
 - more support (designers, developers)
- will lower the barriers to e-learning