

Cultivating ICT students' interpersonal soft skills in online teaching environments using traditional active learning techniques.



Dr Trina Myers

Dr Anna Blackman

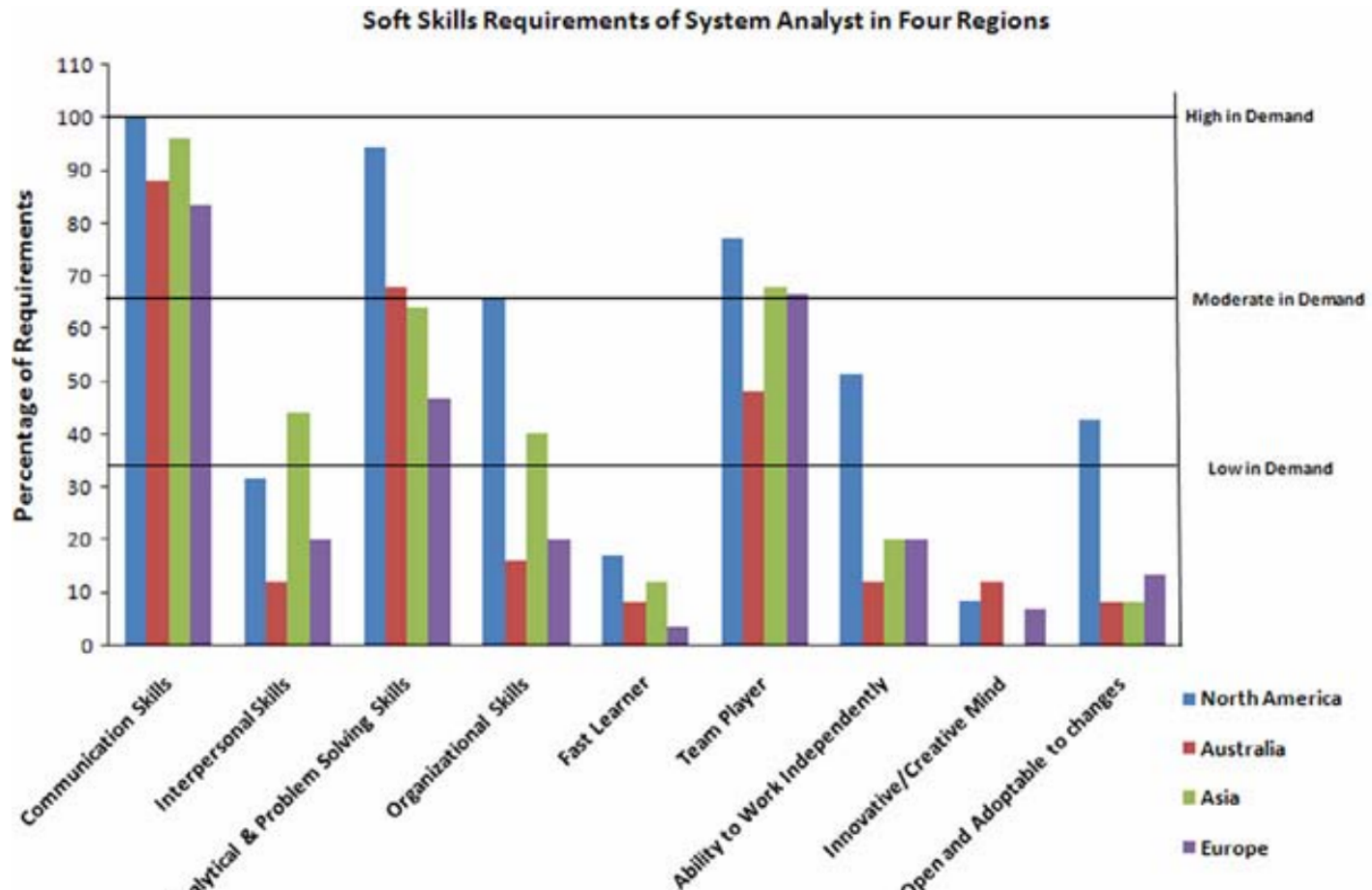
Professor Ickjai Lee

Dr Heather Gray

Dr Jarrod Trevathan

Motivation

- Employers state that a key ICT graduate skill is the ability to work in team environments!



Traditional TBL - POGIL

- Cooperative learning for large classes.
- Highly structured group work
- Relies on peer interaction and accountability
- Tasks include *directed*, *convergent* or *divergent* questions



Traditional TBL - IF-AT

















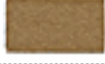

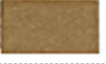

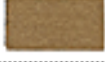

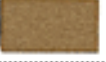

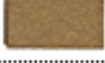
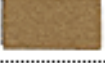
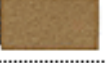
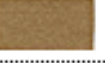




- Instant Feedback Assessment Technique
- Feedback is central to creating student learning and understanding.

IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)

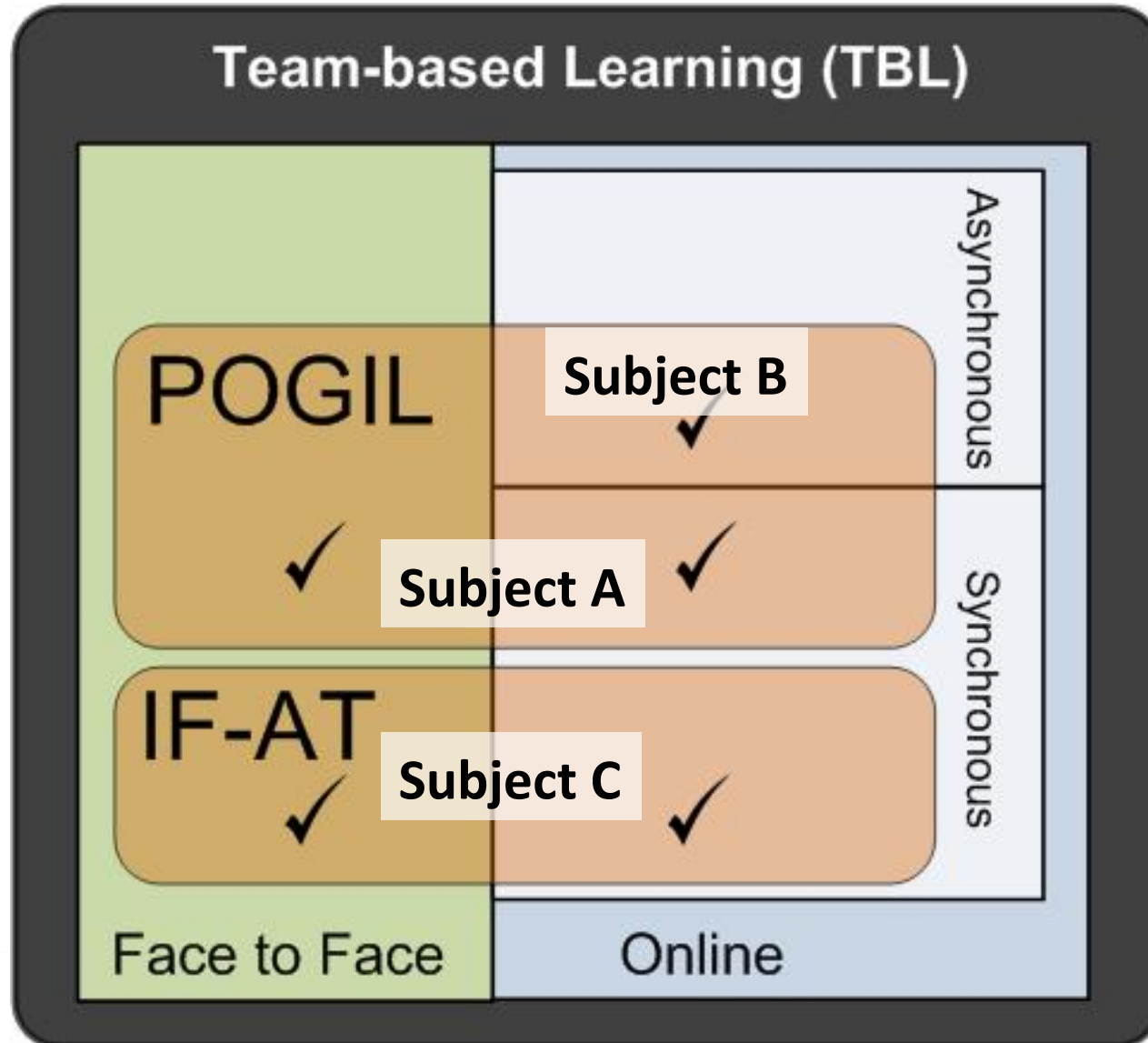
Name _____ Test # _____

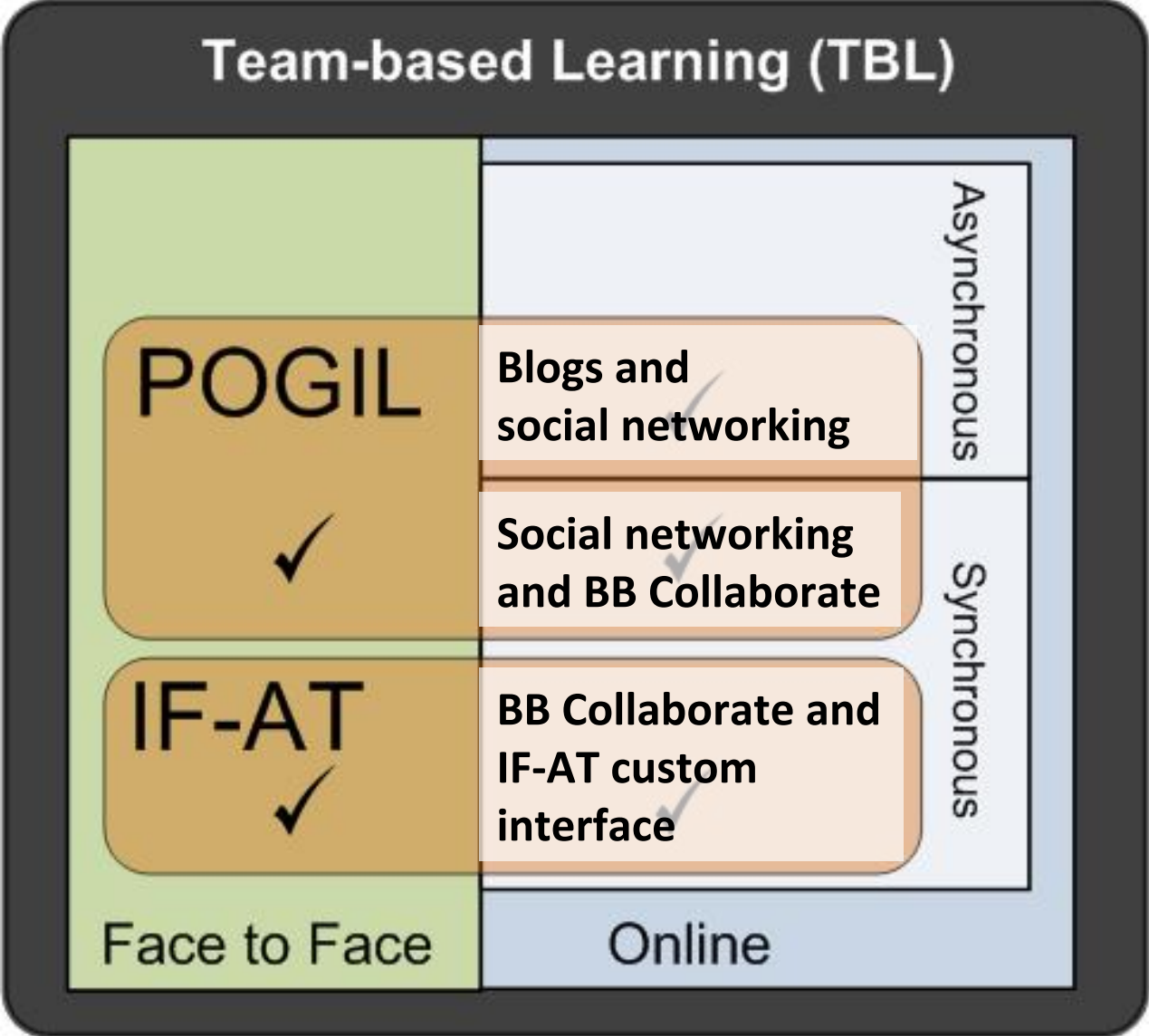
Subject _____ Total _____

SCRATCH OFF COVERING TO EXPOSE ANSWER

| | A | B | C | D | Score |
|----|---|---|---|---|-------|
| 1. |  |  |  |  | _____ |
| 2. |  |  |  |  | _____ |
| 3. |  |  |  |  | _____ |
| 4. |  |  |  |  | _____ |
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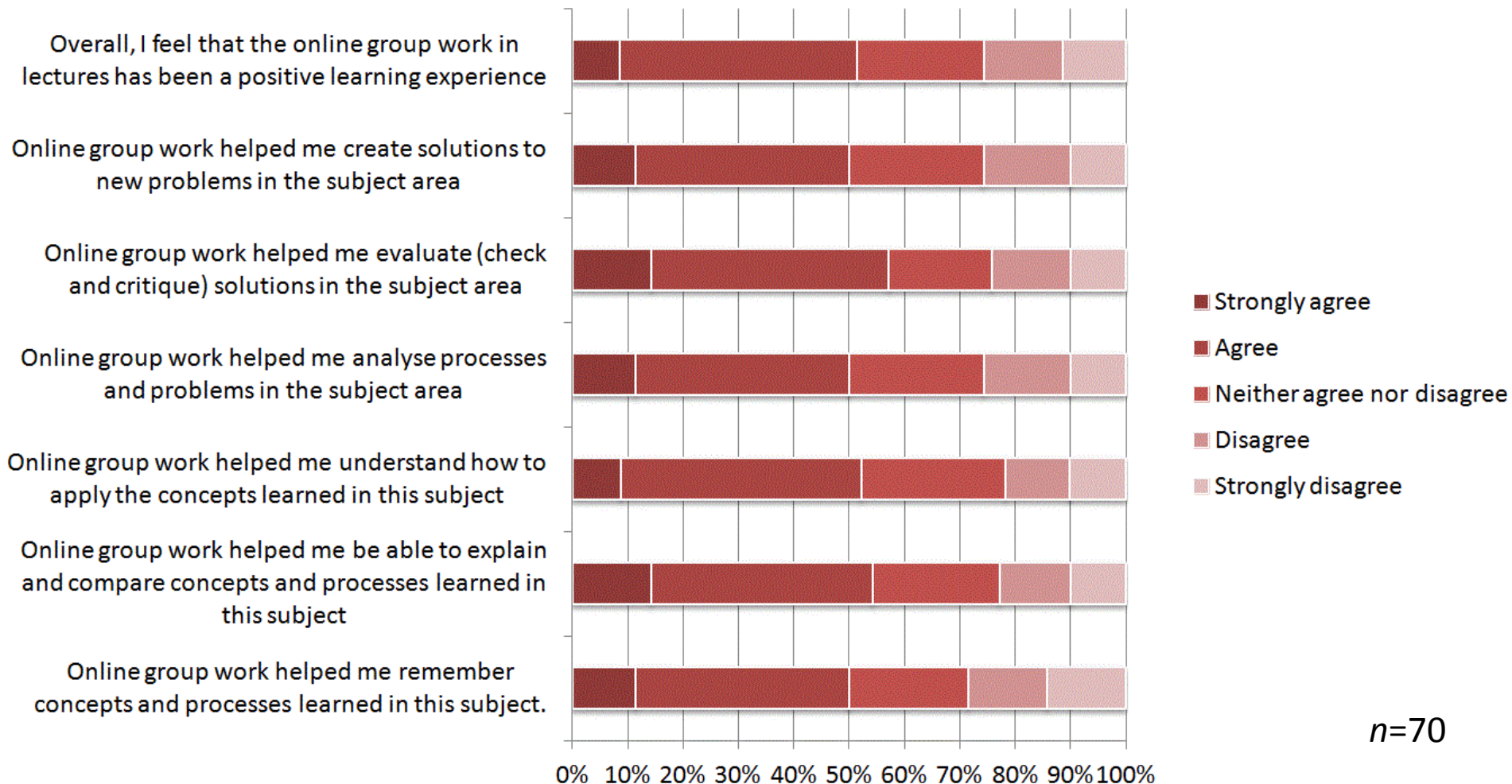
- Online Learning Environments can be:
 - Synchronous
 - Asynchronous
- We aimed to use both environments to explore how to implement true group work where:
 - *Discussions* reach a common group conclusion
 - There is *interaction* amongst team members
 - Work is not split into modules to be plugged together at the end; results are accomplished as a combined effort





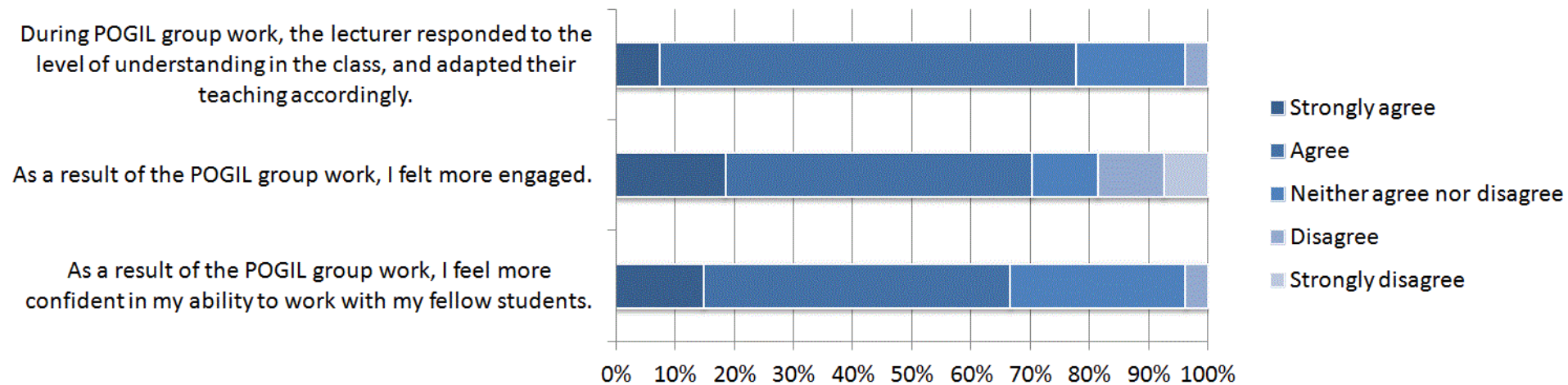
Asynchronous results

- Feelings of both Blogs and Facebook group work



n=70

Synchronous results POGIL



IF-AT – Synchronous mode



IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)

Name _____

Test # _____

Subject _____

Total _____

SCRATCH OFF COVERING TO EXPOSE ANSWER

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| 1. | | | | | _____ |
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| 3. | | | | | _____ |
| 4. | | | | | _____ |
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- Formation of groups
 - Lecturer directed the formation of groups to replicate real working environment
- Online implementation
 - Blackboard Collaborate break out rooms for communication between group members
 - Separate website for IF-AT test
 - Modal interface: one for recorder others to view test

2. Which of the following is NOT an occasion when job analysis is generally undertaken?

- A. When the organisation commences and the job analysis program is started
- B. When a job is changed significantly as a result of new methods, new procedures, or new technology
- C. When an employee is not performing their role adequately
- D. When a new job is created in the organisation

confirm

2. Which of the following is NOT an occasion when job analysis is generally undertaken?

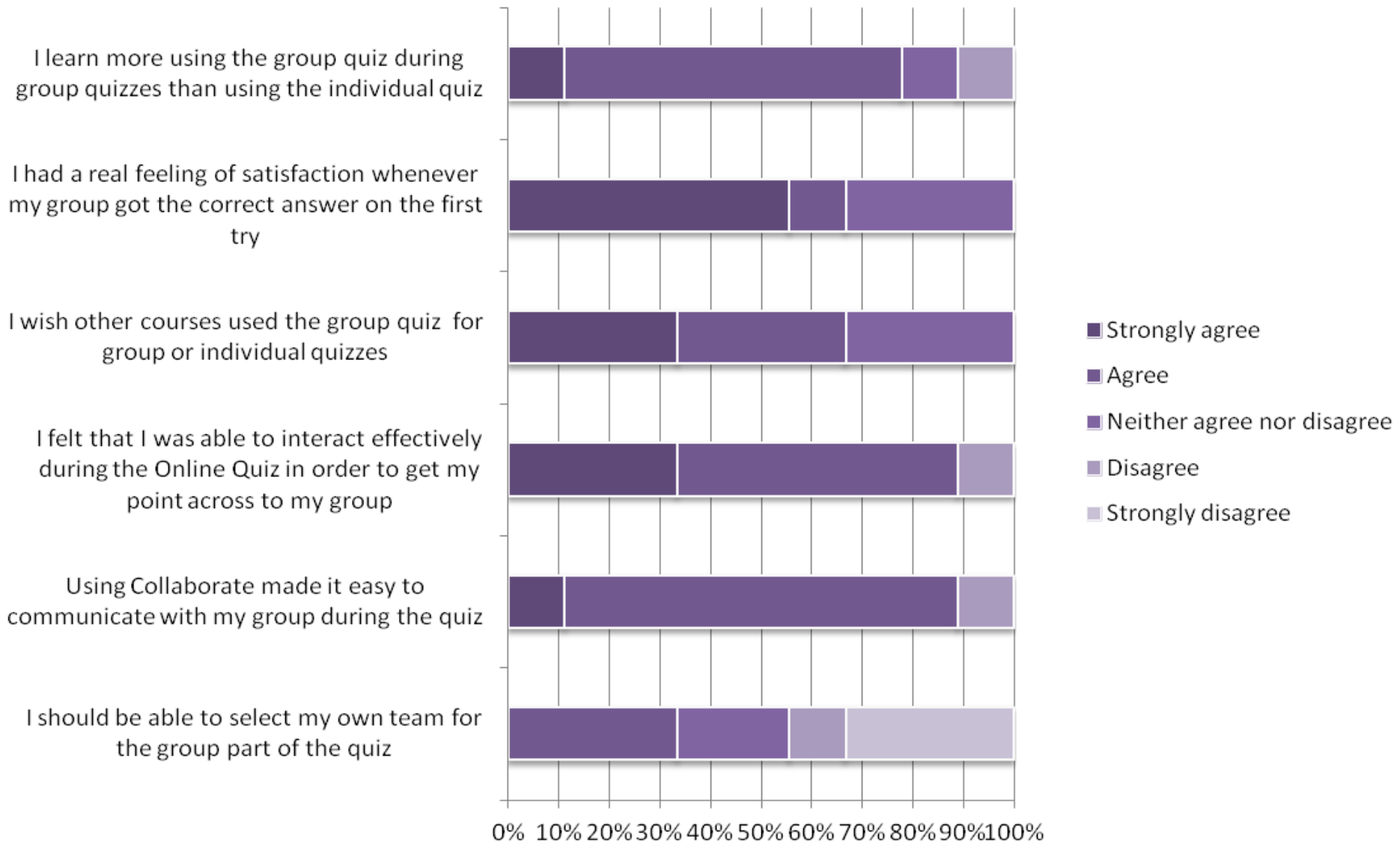
- A. When the organisation commences and the job analysis program is started (incorrect)
- B. When a job is changed significantly as a result of new methods, new procedures, or new technology
- C. When an employee is not performing their role adequately
- D. When a new job is created in the organisation

confirm

2. Which of the following is NOT an occasion when job analysis is generally undertaken?

- A. When the organisation commences and the job analysis program is started (incorrect)
- B. When a job is changed significantly as a result of new methods, new procedures, or new technology
- C. When an employee is not performing their role adequately (CORRECT!)**
- D. When a new job is created in the organisation

Synchronous results IF-AT

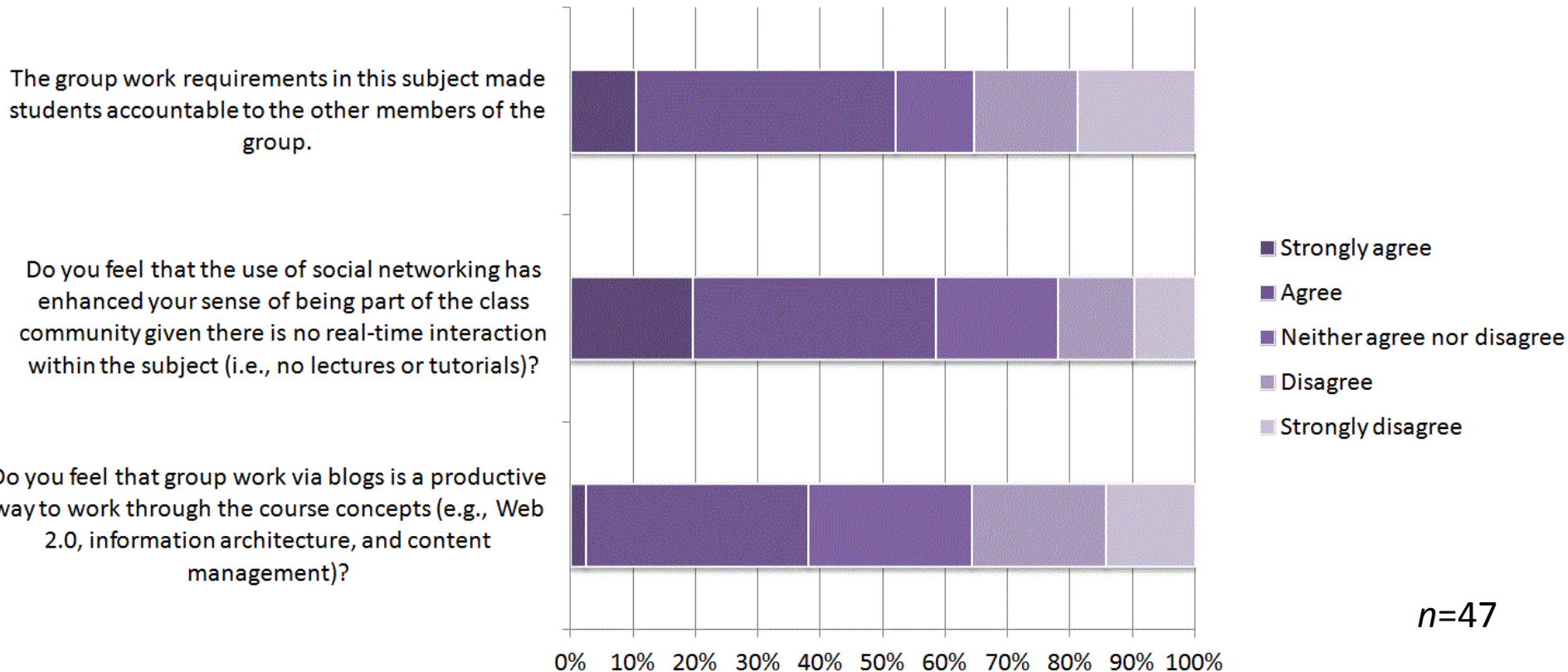


Questions



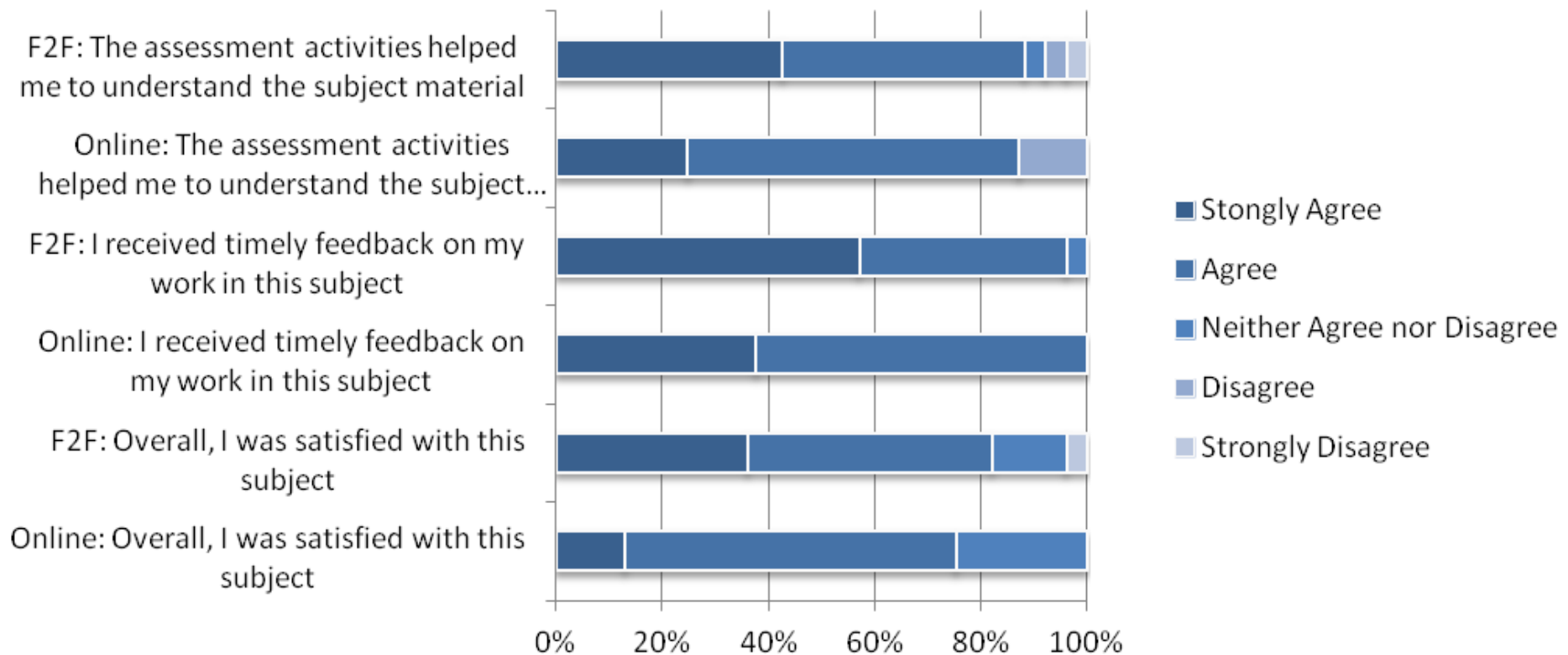
Asynchronous results

- Feelings about Blogs

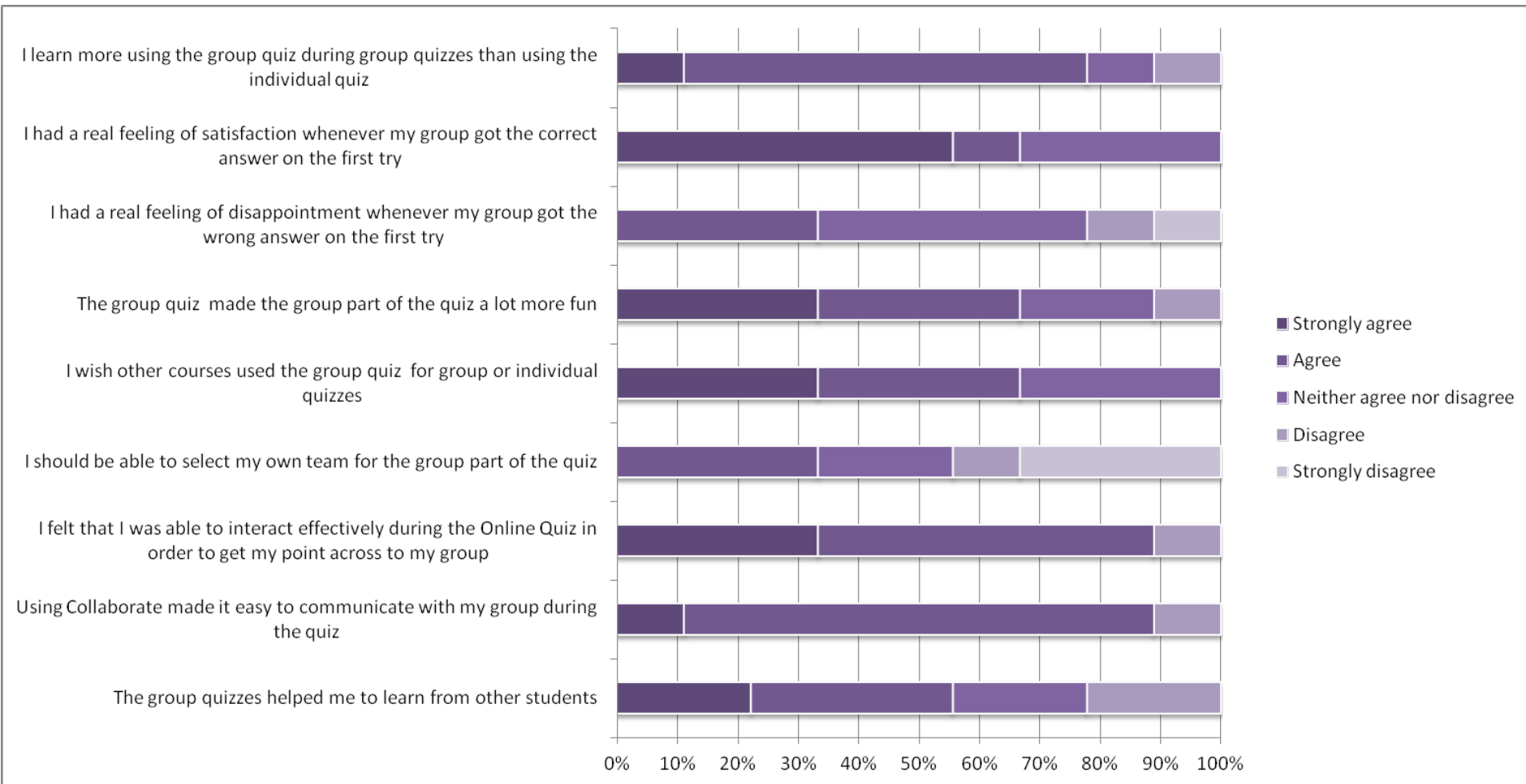


n=47

- IF-AT comparison F2F versus online



Synchronous results IF-AT



Synchronous results IF-AT

