

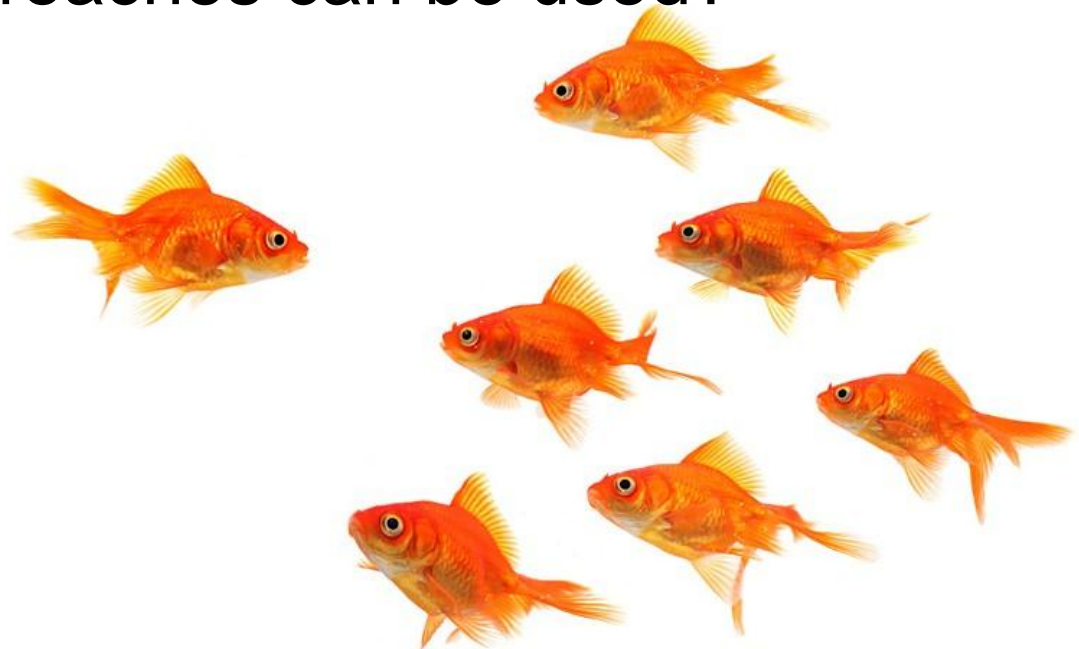


Timetable Modelling: The Innovative Space Planning Tool

John Pryzibilla & Tom Sankey
Mosaic Space Consulting

Timetable Modelling

- Increasing use of timetable modelling
- How is it done?
- What sort of results are produced?
- What challenges are encountered?
- What different approaches can be used?



Drivers of change

- Student enrolment numbers
growth and decline
- Major institution or campus developments
new disciplines; off-shore growth
- Building refurbishment or replacement
aged building stock
- Curriculum change
new teaching and learning methodologies

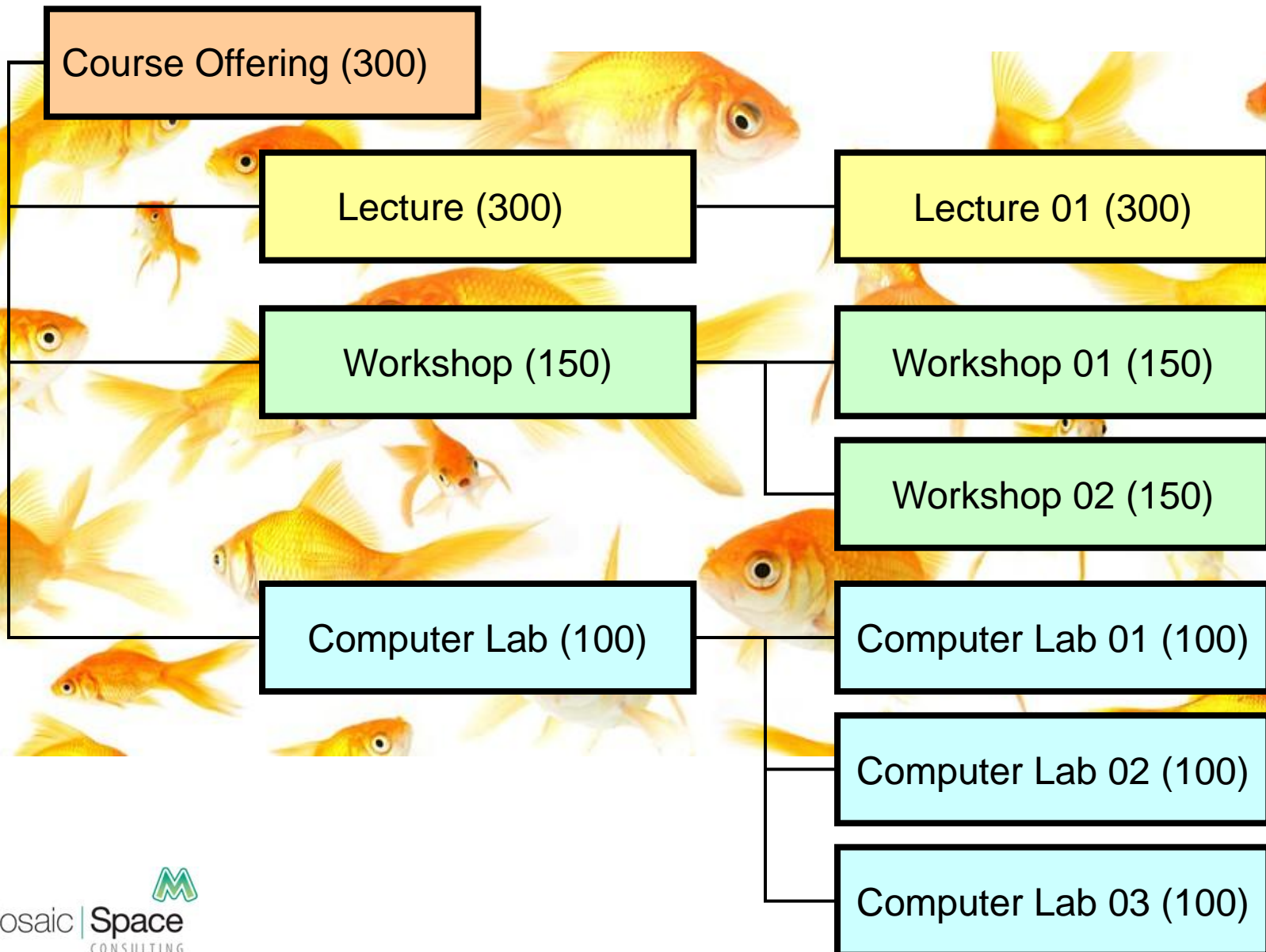


Building Blocks

- Existing timetable
- Current enrolment patterns
- Planning forecasts
- Current and planned teaching spaces
- Planned curriculum changes
 - pedagogy / andragogy; new disciplines
- Planned staff resources
 - student / staff ratios

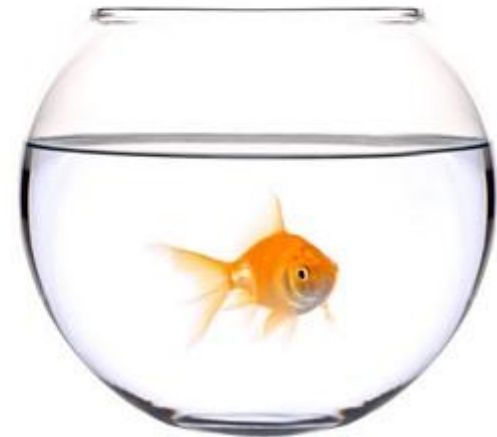


Teaching Delivery Model



Teaching Delivery Model

- Growth: Additional classes vs larger classes
Decline: Fewer classes vs smaller classes
- Impact of technology
- Staff loading
- Changes in teaching delivery
 - intensive
 - collaborative
 - shared



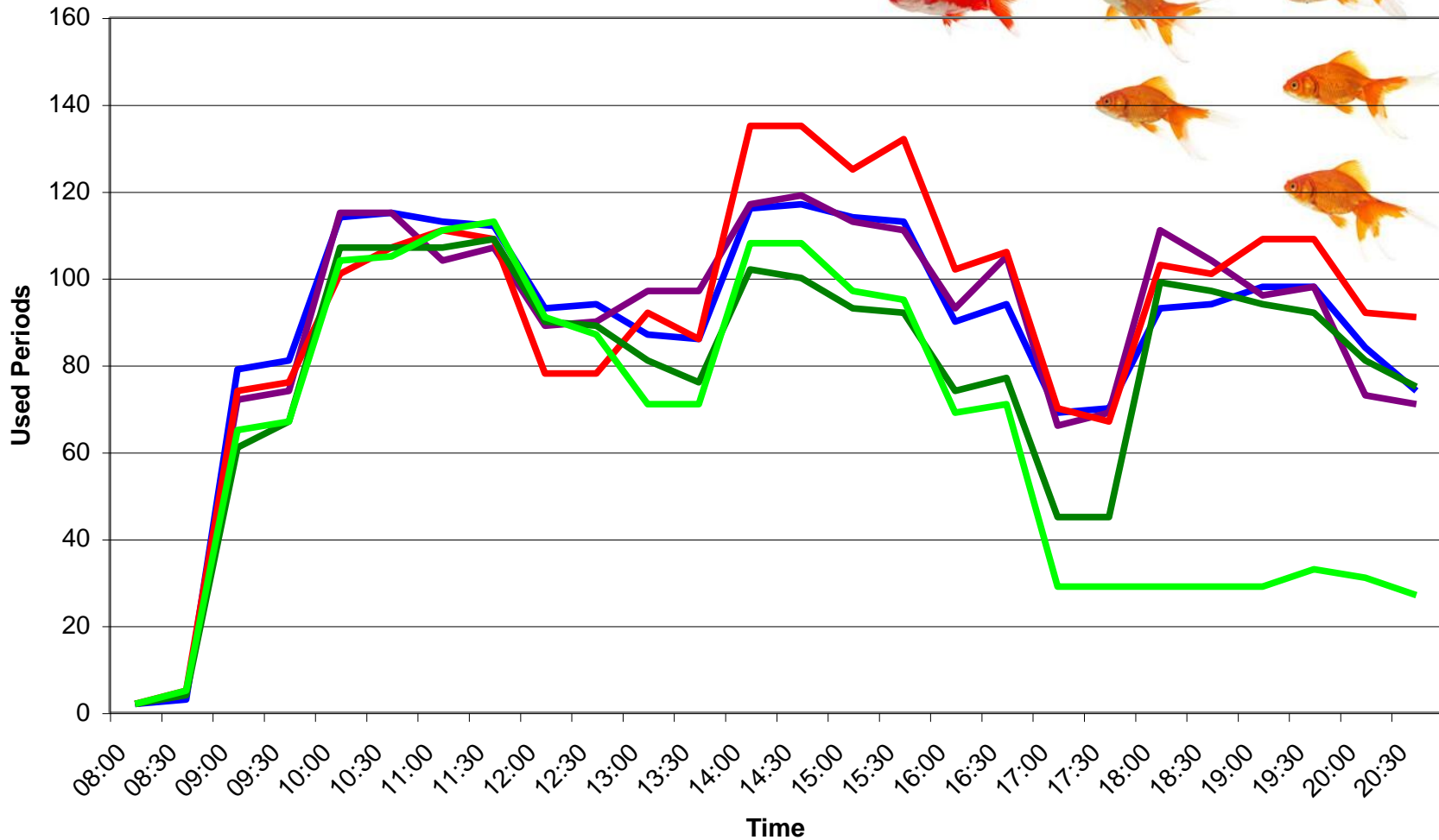
Space Model

- Existing space
- Existing plans
- 'What - if' space
- Assess 'drift' to uniform spaces



Timetable Profile

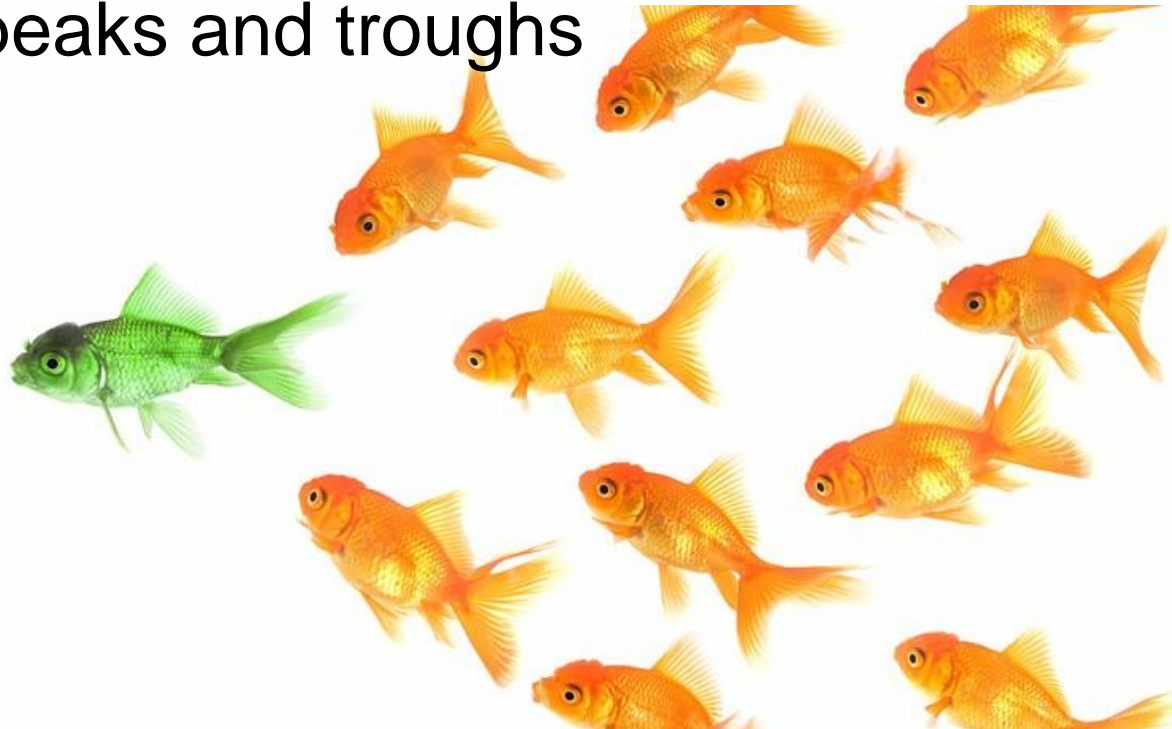
Timetable Usage Profile: Used Periods



Monday Tuesday Wednesday Thursday Friday

Results

- Identifying pressure points
- Identifying impact on existing space
- Validating new space plans
- Creating virtual space
- Understanding peaks and troughs in load and use



The Challenges

- Combining data from different systems
- Using information for purposes other than those first intended
- Getting accurate data
 - Teaching / Space / Numbers / Plans
- Understanding curriculum and teaching change
- Providing for innovative and flexible future space



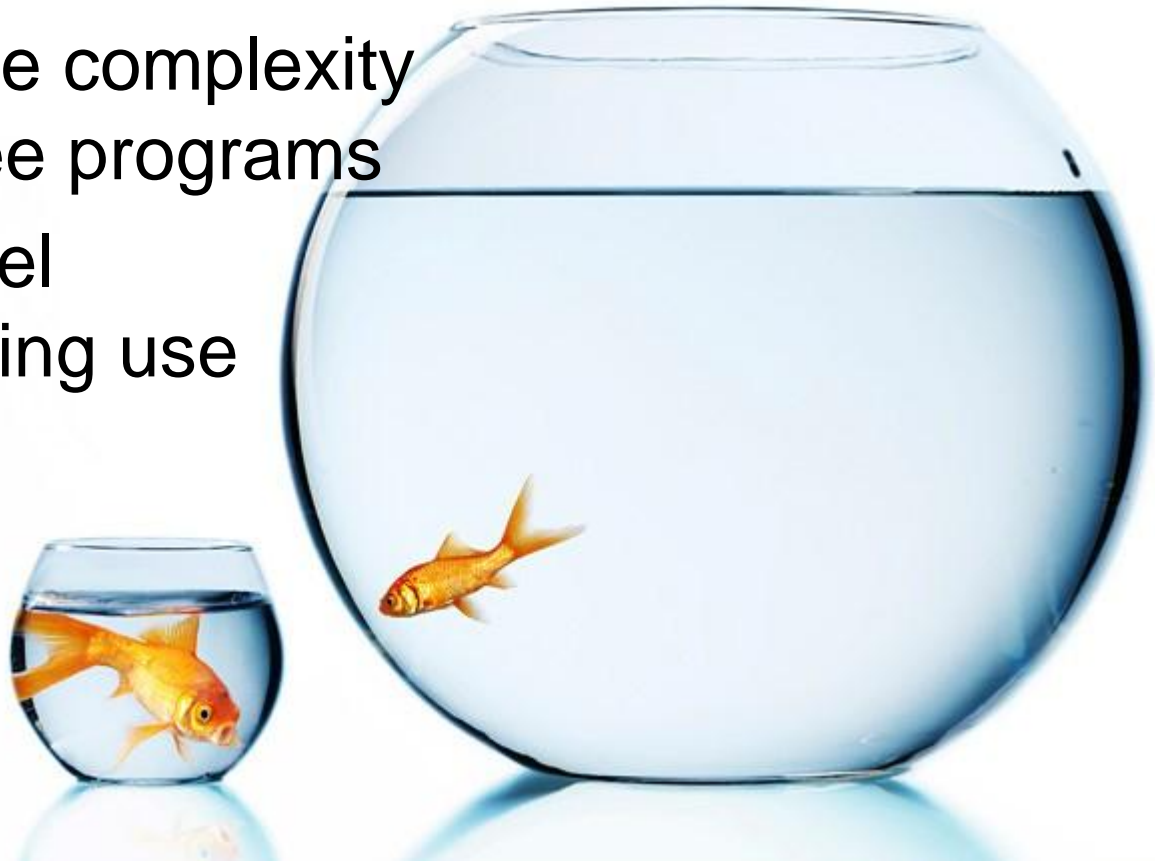
What does it all mean?

- Student numbers
- Enrolment patterns
- Funding levels
- Community expectations
- Technology



Timetable modelling vs traditional methods

- Not a replacement - an enhancement
- Greater level of confidence in plans
- Flexibility
- A response to the complexity of modern degree programs
- Capacity to model changes in building use



Timetable Modelling

Questions?

