

## FIT3047

### Implementation

Week 8



### On the menu this week

Watch:

Read:

Participation quiz

Extra reading too  
(On Moodle!)



### Housekeeping

- Dev/review/production folders on Monash server
- Are you actioning your retrospective takeaways? Are they actionable to begin with?
- Trello - unit tasks and project tasks? - different lanes for different tasks



### Housekeeping

 Product owners

Demo.s

IDs? Customer ID 3 (but no name?). Then you tell your PO, that they can go to the invoice to see who it is!

Test Data - in product - "test1!" Your PO does not know whether that is a part or a product!

Presentations:

When describing a persona that is your client to your client, why do you talk about them in the third person?

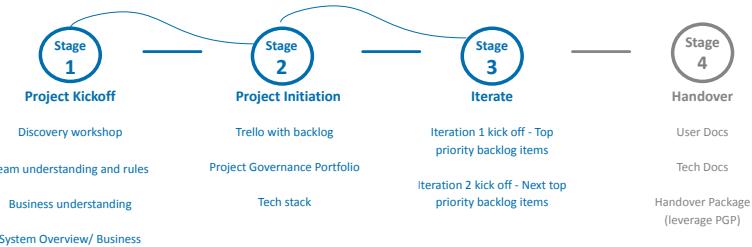
Why do you read dates off your timeline including for example, Sept 12th presentation of IT2 requirements, when that is what you are actually doing?

You need to understand what you are saying with reference to what you are doing.



## Roadmap: Where we are

Plan for project

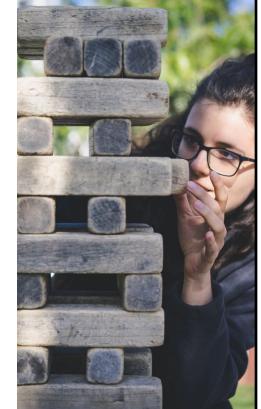


## Implementation without risk

So let's talk about deployment

**Expected as soon as you arrive at FIT3048**

Assuming your system is *ready* for deployment, what do you think is left to be done in order for the client to begin reliably drawing value from what you've built?



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## Implementation for each iteration

- 1) Site preparation:
  - a) Obtain hosting provider details
  - b) Install an SSL certificate before first iteration goes live
- 2) Migrate data, maybe
- 3) Deploy database before each iteration - changes needed?
- 4) Deploy system, hide it on ISP (back ups needed first?)
- 5) Training of staff (maybe)
- 6) Acceptance testing - yes each iteration
- 7) Other testing
- 8) Going live
- 9) PIR
- 10) Provide final documentation to client,
- 11) Anything else?



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## Use Trello for all these implementation tasks

Each iteration:

- They need to be documented and not forgotten
- You may need different tasks
- You may need further tasks, convert different data
- Retrofit your system

So you will need to rethink them, each time.

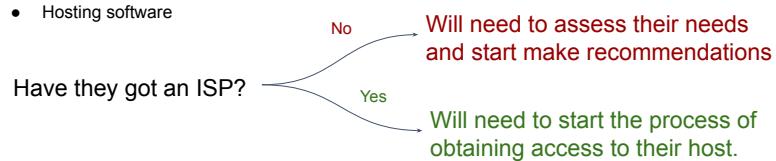
Use a label for your implementation tasks, not user stories.

In **internal unit lanes!**

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## Hosting - Probably just the first time you go live

- Almost all clients have their ISP details ready (Check!)
- Where is the system going to reside?
- Does your client have the necessary hardware/ software?
- Do they need any licenses? API keys? etc.
- Hosting software

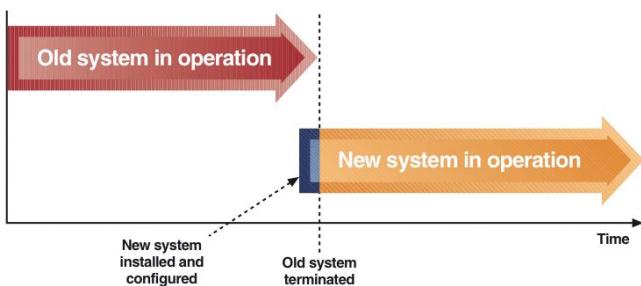


## Cut over, possibly just one - but possibly not

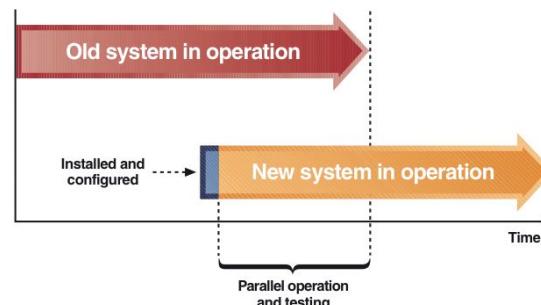
What kinds of cut over could you have?



## Direct installation and cutover (good, bad , ugly?)



## Parallel Installation and Operation (good, bad, ugly?)



## Cut over - running

Important planning considerations

- How are you going to do it?
- Costs of operating old and new system in parallel.
- Detecting and correcting errors in new system.
  - Clear instructions for what to do when things go wrong.
- Potentially disrupting the business operations.
- Training personnel and customers with new procedures.
- Using the system, backup, recovery.



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## Quiz!

The question is.....



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## Backups! At (before) each deployment - necessary?

Each year someone accidentally breaks their clients existing website!

What might we need to back up?

Is it going to be you this semester?



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## Don't forget - Data Migration may need to consider at each iteration

What data might your client (any client) have?

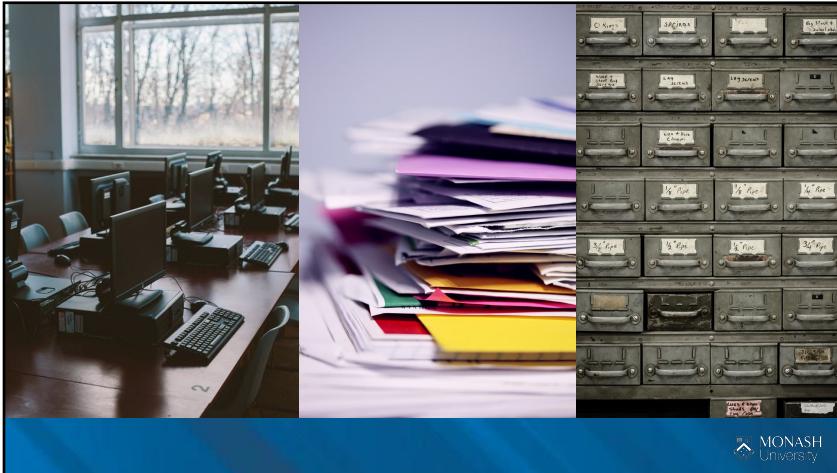
How much data do they have?

How important is the data?

How often do they refer to the data?



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## Considerations

What data does your system need?

- Files or database records of the system being replaced (if any)
- Manual records
- Files or databases from other systems

Reuse an existing database / creating a new database

- **Don't forget to clear your test data before handing over!**

Who migrates the data?

- Does your system support importing an Excel file?
- **Do you write a one off scripts?**
- Does the client manually enter old data?



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## Testing your data migration

Who will test it?

How will you know if it worked?

How will you know if it **failed**?



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## For Each iteration

- Usability testing
- You test it.
- Your friends test it.
- Your great great grandparents test it.
- Your cat tests it!
- Get your client, to check before complete

Test well and often before the due date.

Your client can tell you if you are doing the right thing.



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## For Each iteration

- Unit testing during
- System testing after iteration complete
- Stub testing during dev.
- Regression testing (if appropriate)

For Deployment - you must:

- Usability testing
- Load Testing
- Stress Testing
- Performance Testing
- Backup and recovery testing
- Client acceptance testing
- Regression testing (if appropriate)

Extra thing (not normal) - integrity testing - quality control check



## User Documentation

- For users and system operators (clients).
- Not for the general public - Why?
- Descriptions of how to use the system.
- Will need instructions for each iteration, but will be a final "proper" version at end of unit



## Training

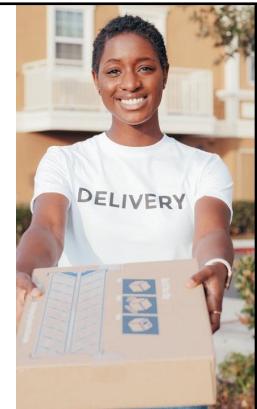
Training considerations:

- Frequency and duration of system use.
- Need to understand system's business context.
- Existing computer skills and proficiency.
- Number of users
- Needs a training manual/video? What?
- Training one, training many, training trainers?



## Technical/ System Documentation at end of unit, part of handover

- Used by maintainers and future developers.
- Description of system functions, architecture, frameworks, etc.
- Generated as a by-product of development
- Includes source code, documented in line.
- Includes analysis and design models (e.g. ERD).



## Post Implementation Review

- Is it working as intended?
- Is it adding value we promised?
- Why?
- When?
- Who?
- What happens after?



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## However

Your client may not want you to go live for the following reasons:

- Not quite what they want yet
- Serves no purpose with the following iterations
- Don't have time to make the transition
- Too risky

... But if you've done Agile right...



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## Implementation Plan

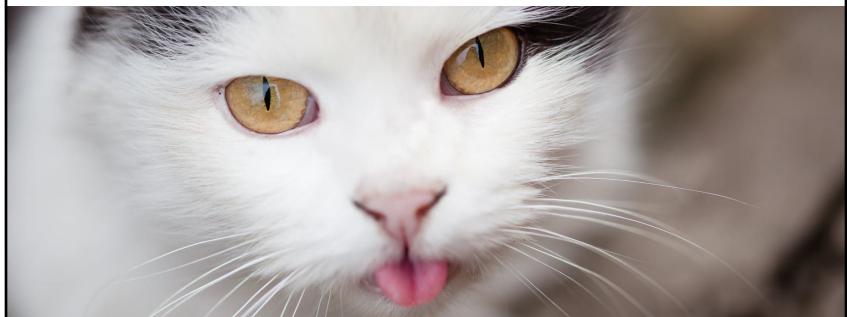
- So now a plan. It's a plan!
- You're not actually doing all of the activities by end of this week
- It's a plan!
- For whom? Why?

What's on the plan - as a team

**Sample Implementation Plan under My Assessments on Moodle!**

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## Until Next Time



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