



Requirements Gathering

Stuart McBain



Agenda

- Who Am I? (2 mins)
- Who are P&G? (5 mins)
- What is IDS? (3 mins)
- Requirements gathering for the “Appliance Database” (30 mins)
- Talk about Testing Lecture (2 mins)
- Q&A



Who am I (5 Min)

- Stuart McBain
- 2:1 BSc (Hons) in Computer Science (2004)
- Applied for P&G (sales) in (2004)
- Successfully re-applied to P&G (IDS) (2005)
- I work in Research & Development in Laundry care in Newcastle





**P&G are a Fast Moving
Consumer Goods Company**

P&G

Who can name some brands?



23 Billion-Dollar

P&G
Brands

P&G a new challenge everyday

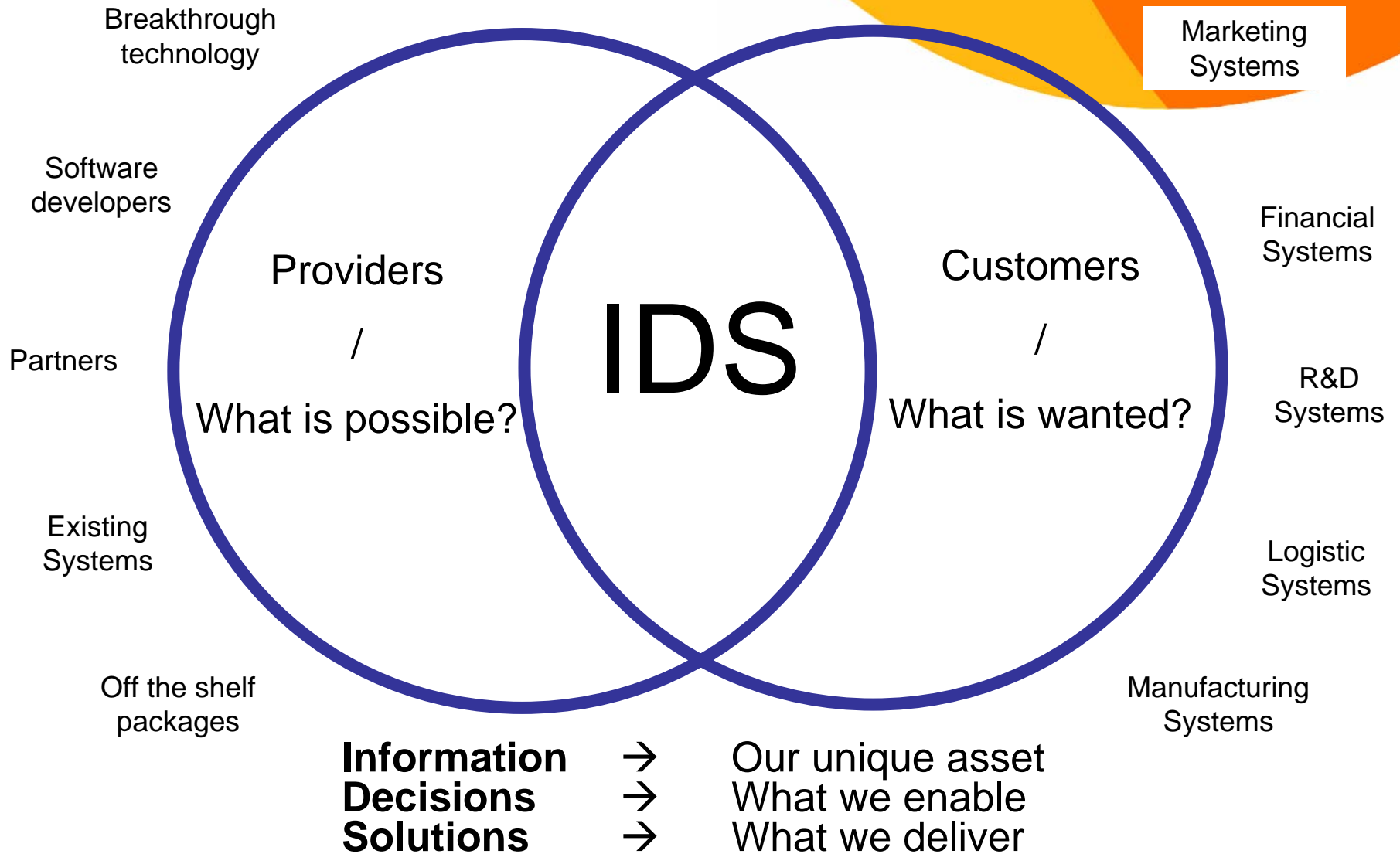


Who are P&G



- P&G has 300 Brands in more than 160 countries and employs across the globe more than 110,000 people worldwide.
- On The Ground Operations in 80 Countries
- 2500 IDS Employees worldwide
- Recent Acquisitions (Gillette, Wella, Clairol)







The Appliance Database

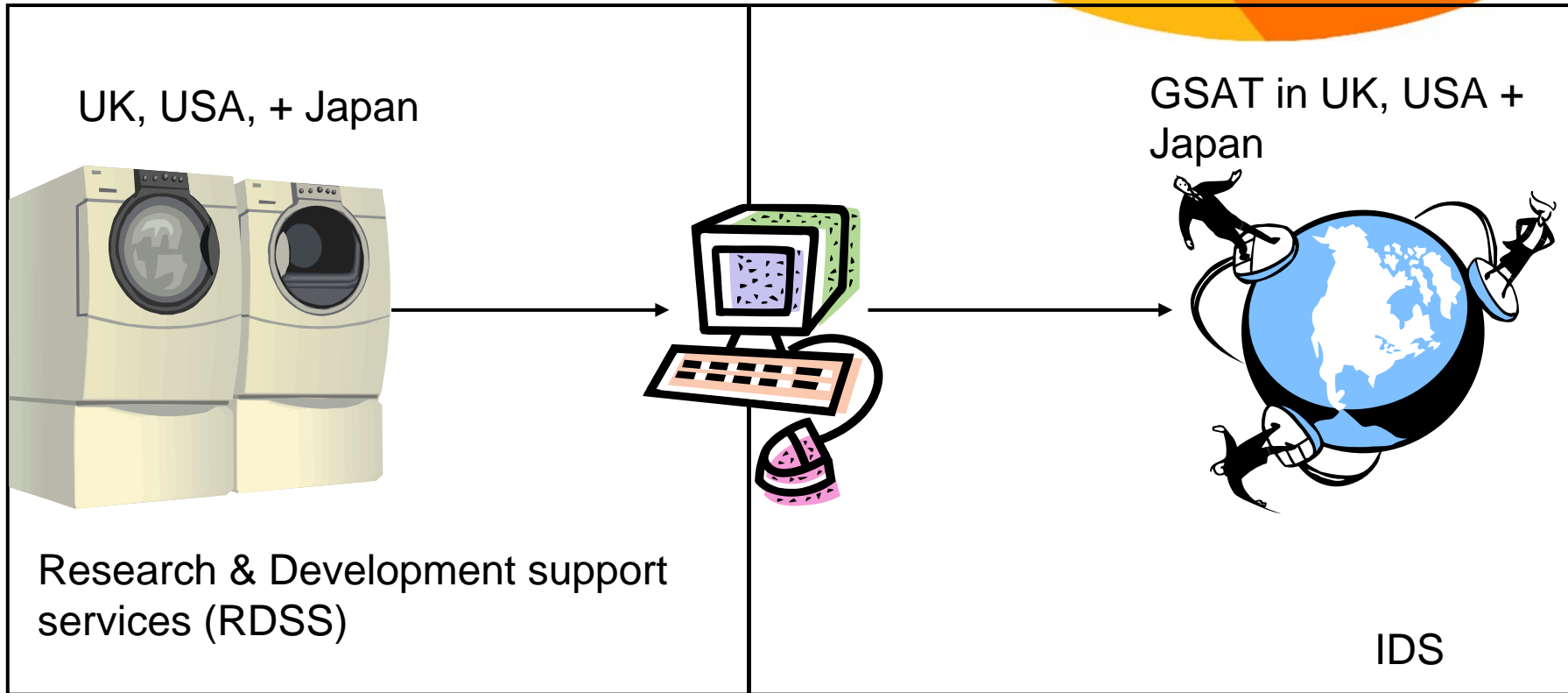


Background

- Used by Laundry Care – Think Ariel, Bold etc
- In Laundry care there are:
 - Experts who design the product
 - Experts who test the product in various appliances (Global Strategic Alliance Team GSAT)
- The Appliance Database was needed to track the appliances in which our products were tested – Think Washing Machines



The idea



* Remember we deal in information – not hardware



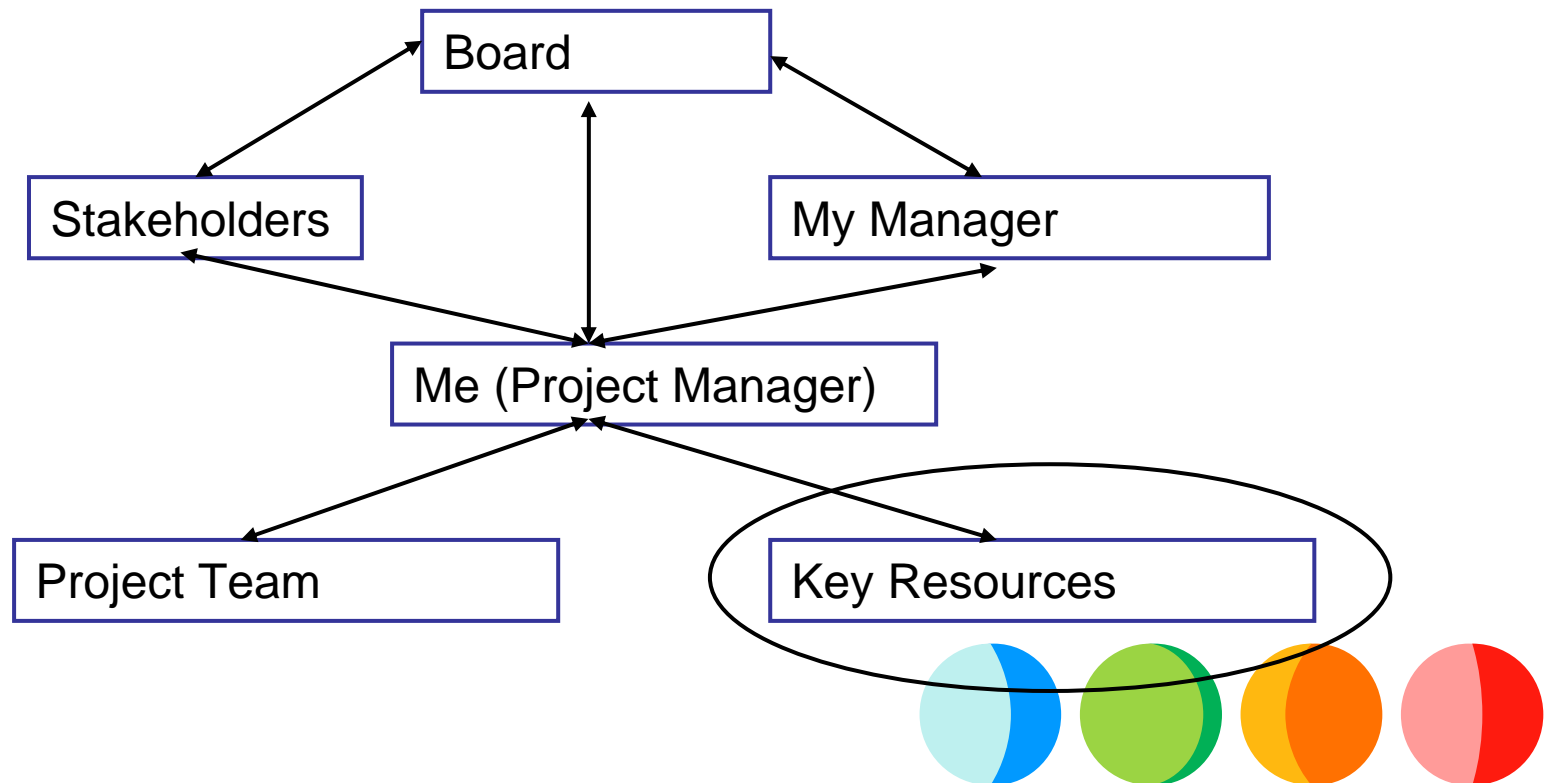
Scope

- Scope – Take appliance data from the Data Acquisition Systems, add appliance information manually, make it available via a web interface
- Regarding Scope - “If you don’t know where you are going how will you know when you get there?”



Requirements –Getting Started

- Identified people involved – if you don't talk to everyone you will miss something
- More people = less risk



Key Resources

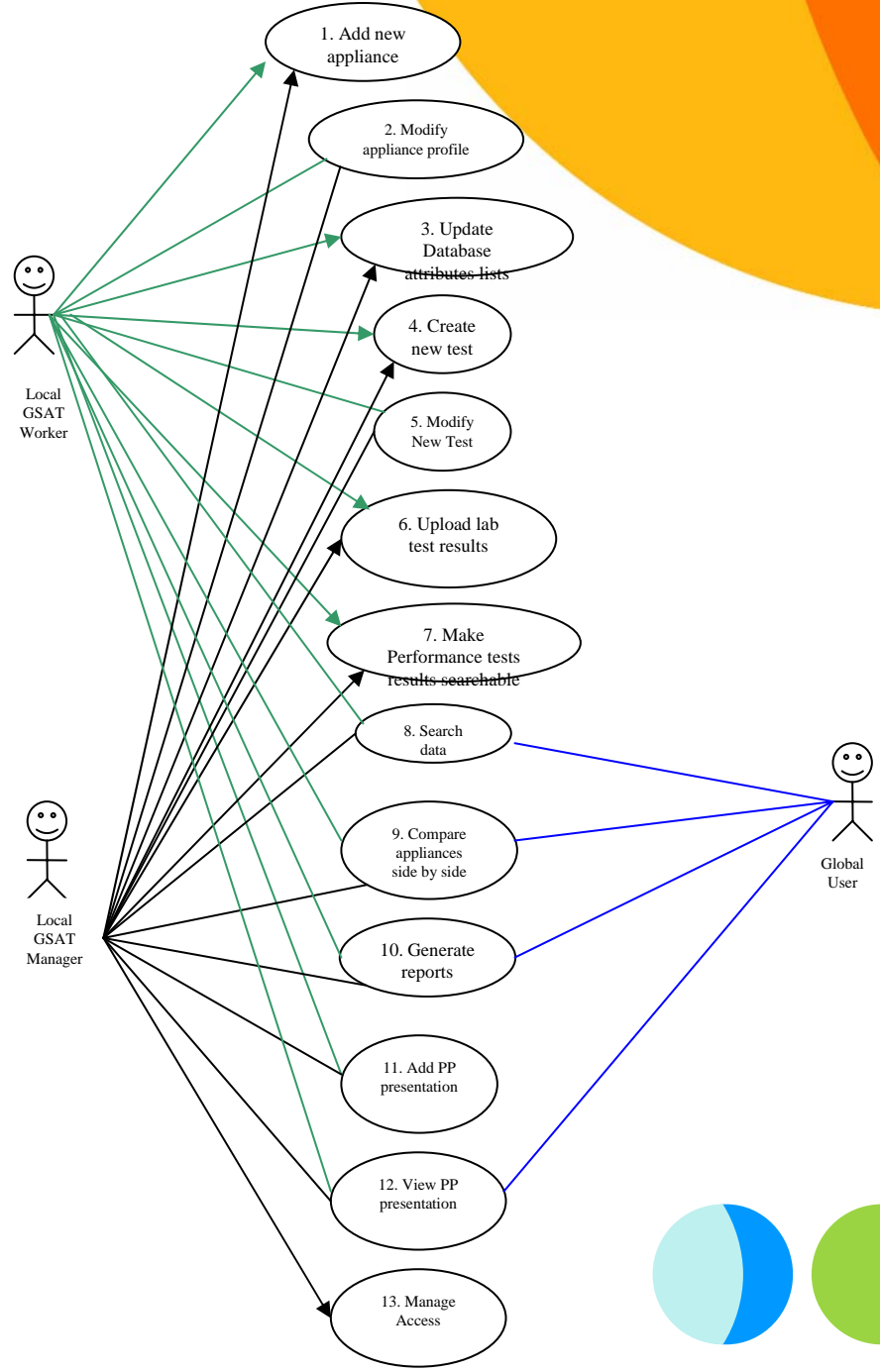
- Key users
- Owners of other systems that interact with your solution
- Our keys resources are our link with the business
- I'm are the single point of contact between the providers and the key resources.
- Key user(s) in UK, USA & Japan



Gathering Requirements

- What is current?
 - Understand the base + pain areas
 - Use use-cases to identify processes
 - Use flow charts to start to add detail to those processes
 - Go back to key users “is this correct?”
 - The key users work that with the end users
- Start again - what is desired?
 - Armed with the knowledge of the current system
- Use prototypes / mock ups etc





Advantages

- Makes users think
- Help users visualise the process
- Easier to understand than text
- Very focused
- Industry standard terminology used by vendors as well
- Each time you do it you are **REDUCING RISK**



Disadvantages

- Users don't know UML
- Can be time consuming
- Feels like overhead
- Writing documentation is not to everyone's taste



Don't go too far...

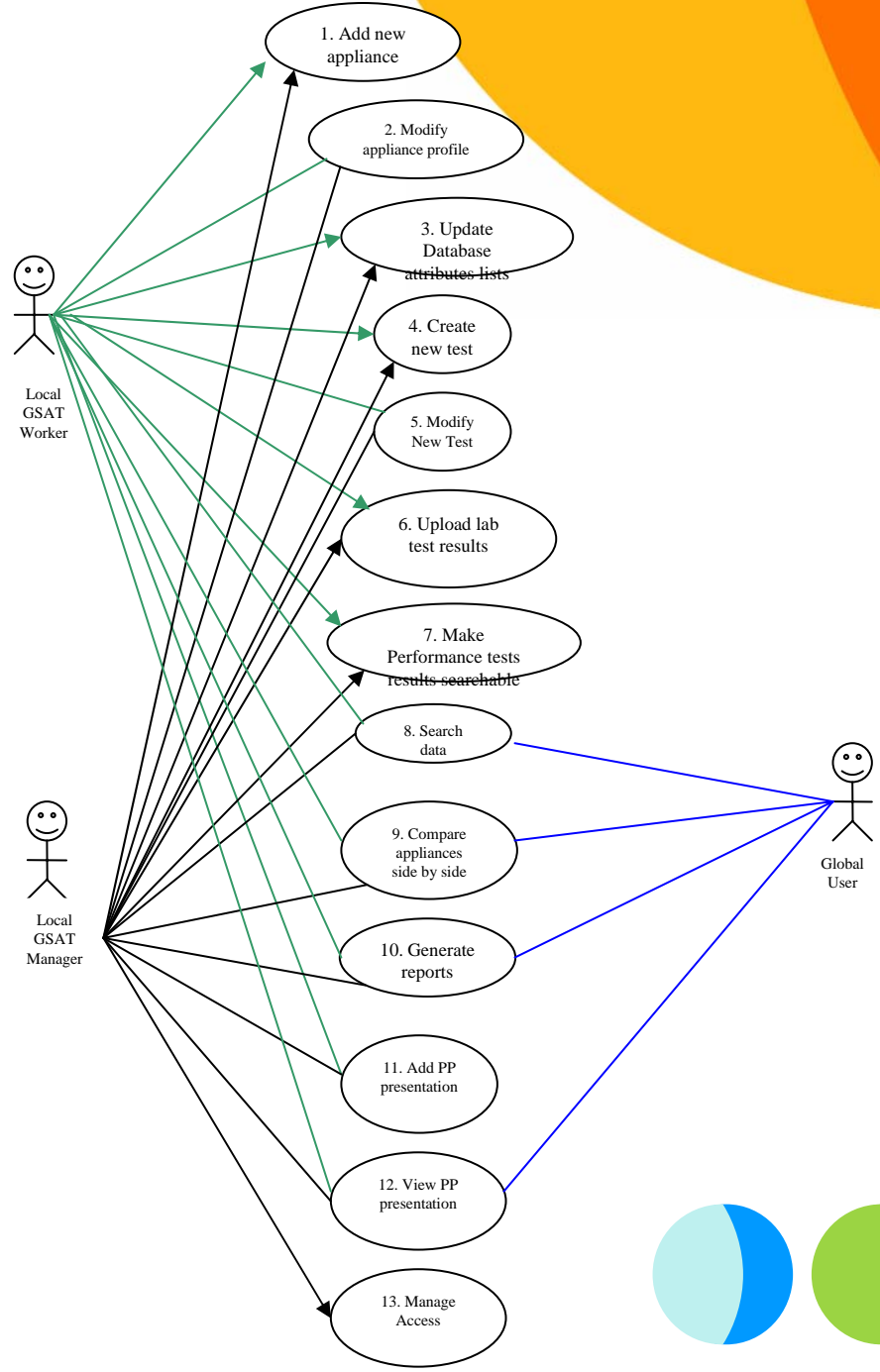
- Don't define the solution
 - “if all you have is a hammer you see every problem as a nail”
- Car Example
 - Buy a car: *too vague*
 - Buy a red Corsa: *too specific, might miss out, not using the expertise of the car sales man*
 - Buy a car, in this price bracket: ✓



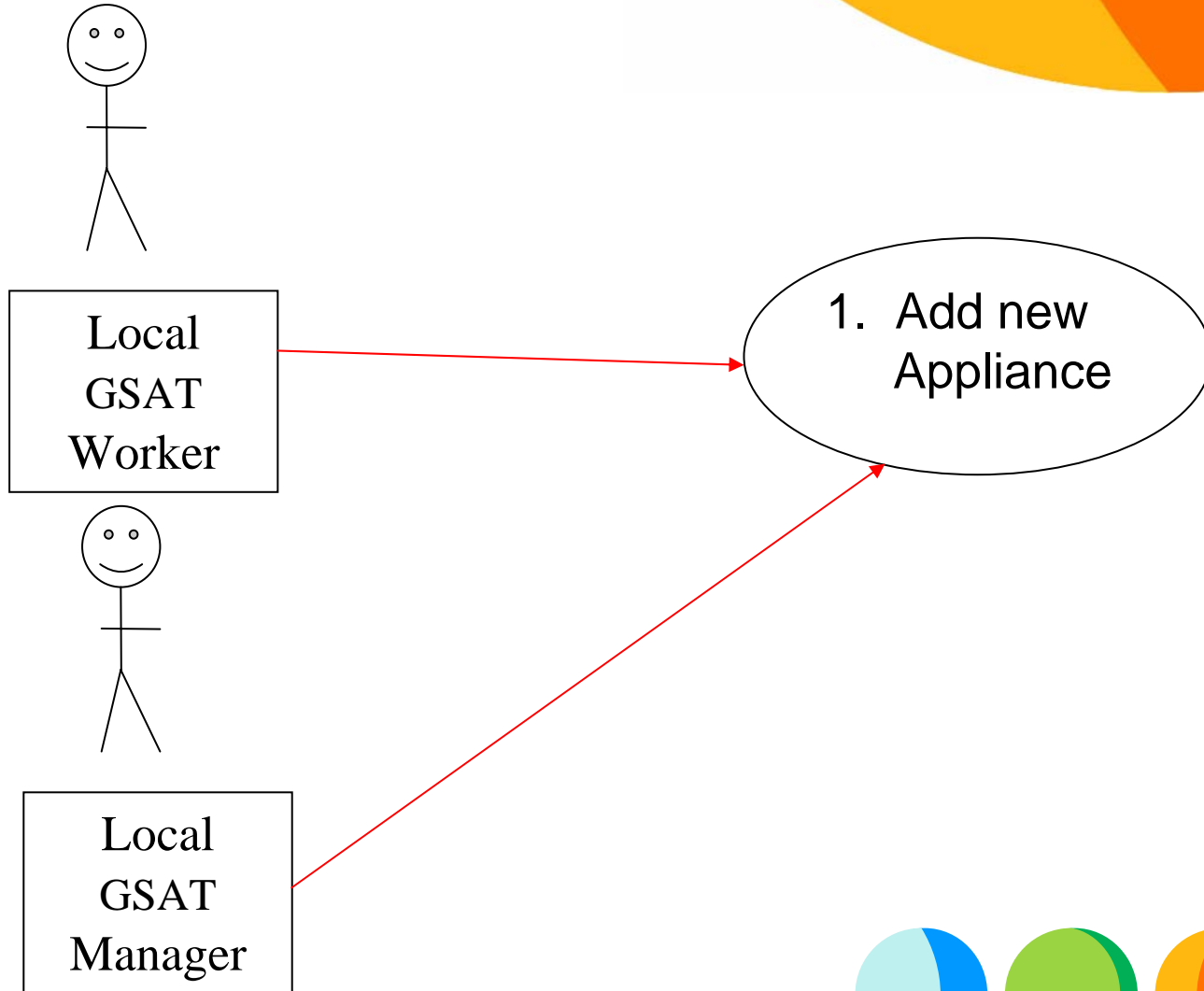
Appliance Database Use Cases

- 13 Use Cases
- **Actors**
 - The GSAT Manager
 - Local GSAT Worker
 - Global User
 - DAQ





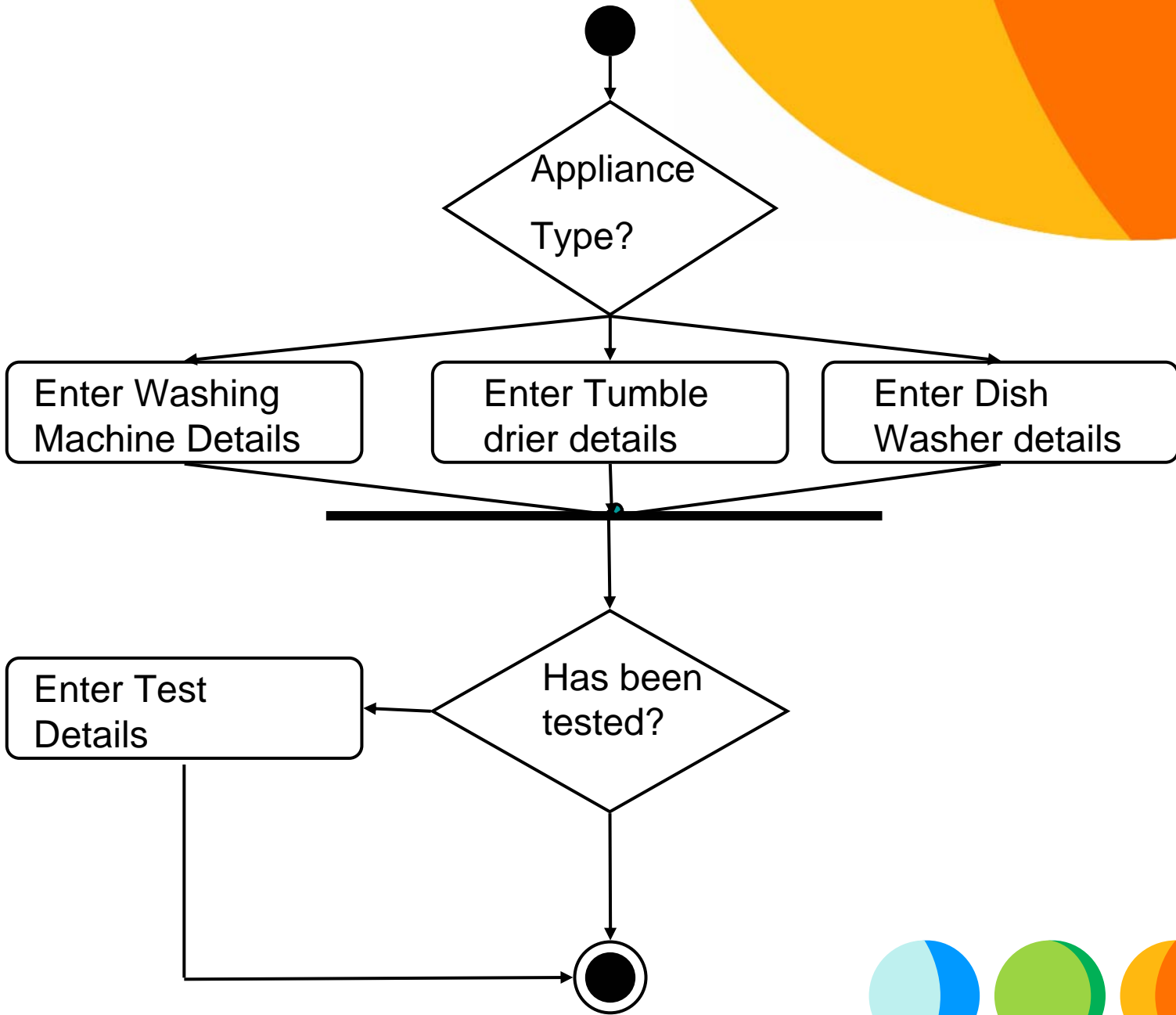
Use Case Detail



Add new appliance

- **Pre-condition:** The data about the appliance is not stored in the database yet.
- **Actor:** local GSAT Worker, local GSAT manager
- **Details:**
 - The local GSAT Worker choose appliance type
 - Appliance number will be generated automatically
 - GSAT Workers will be prompted to assign the right attributes to the appliances.
 - Common features should be picked from a list
 - The local GSAT Worker will be able to add tests to the appliance record containing date, test number and short incidence description
 - The User will also upload pictures of the appliance.





Summary

- Identify Stakeholders
- Talk to them
- Use cases identify high level processes
- Flow charts define specific processes
- Requirements require Business sign off
- Refer back to requirements for success criteria i.e. does it do what you set out to do



Real Value

- On a small academic project, it can seem like more overhead than work
- Sometimes the balance feels wrong
- On real projects, these are the things that save you
- Being great at project management makes you great at delivering things → superstar!





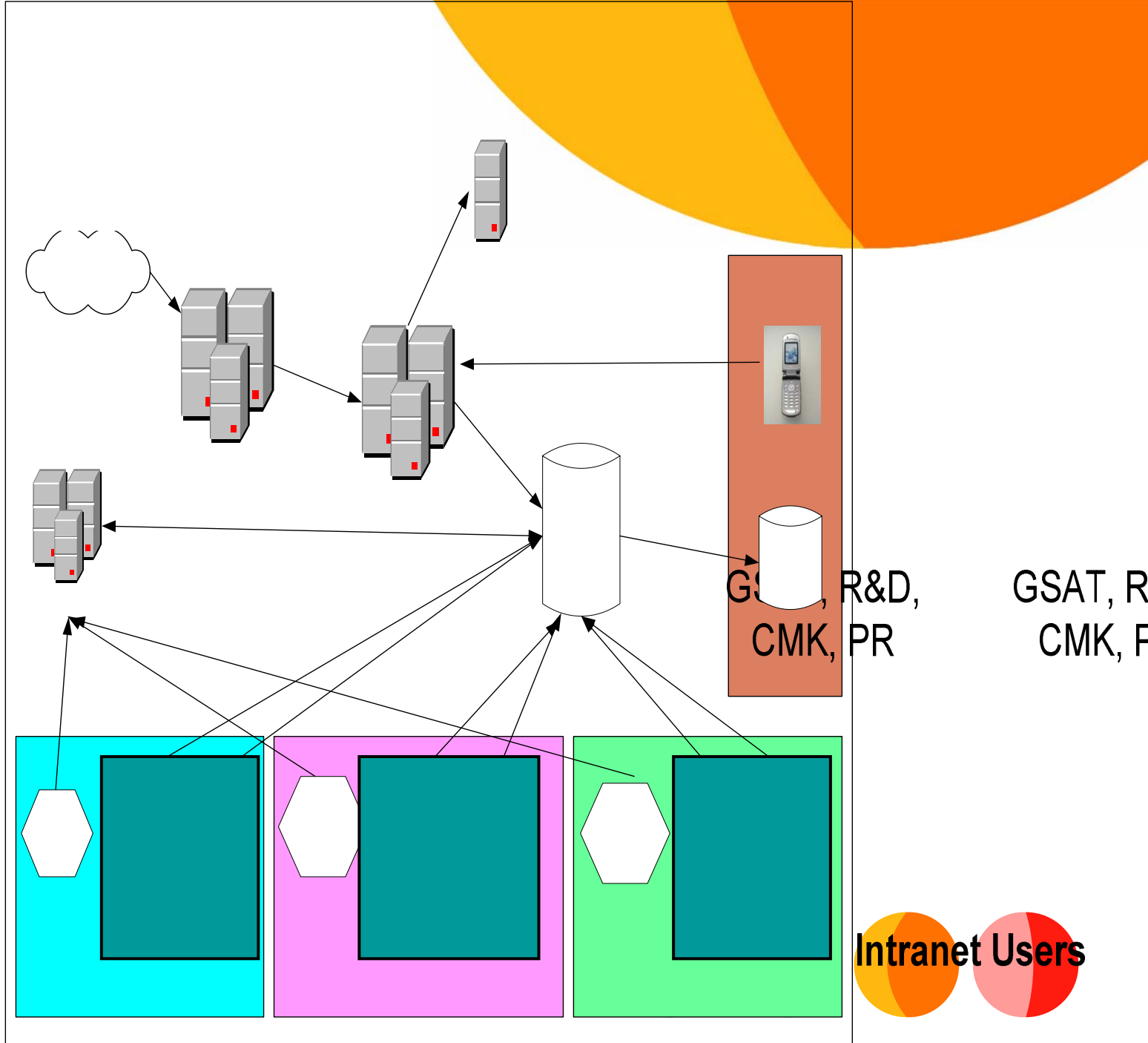
What Happens After Requirements?

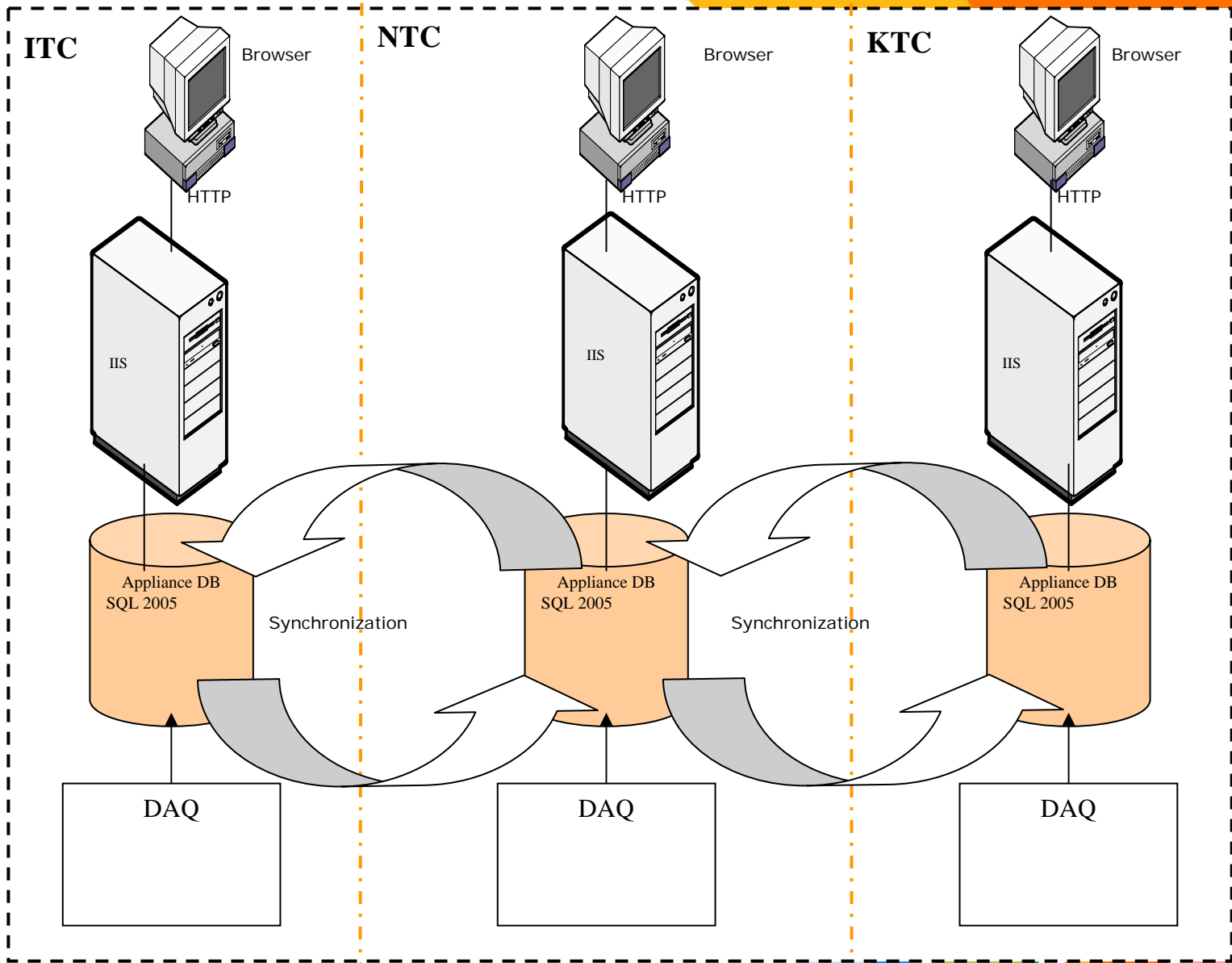
P&G

Tender Process

- Central purchasing identify & work with vendors to ensure fairness & legality
- Vendors replied with questions
- 2 Rounds of Q&A with vendors
- Vendor provides proposal, description of their understanding + project plan + cost + technical details of the solution







Vendor Comparison

	Vendor 1	Vendor 2	Vendor 3	Vendor 4
Compliance to GSAT requirements	✓	✓	X	✓
Meets technical requirements	✓	✓	X	✓
Compliance with other R&D systems	X	✓	X	X
Initial Price	\$120M	>\$200M	\$190M	£110M
Reviewed Price	\$100M	\$150M	\$160M	£110M

Sneak Peak

- Using SAP integration as the case study
 - Unit Testing
 - System Integration Testing
 - Business Acceptance Testing
- Issue tracking
- Success Criteria
- Friday 16th November



Thanks – Questions?

BTW the corporate presentation is tomorrow

Time 7:00pm
Highland Suite
Paramount Carlton Hotel
North Bridge

