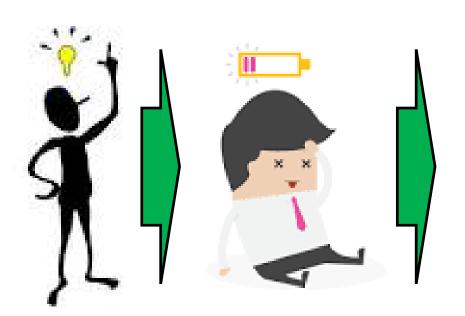


How to design your hybrid suite....







Rob Whiteman Superintendent Radiographer

The plan

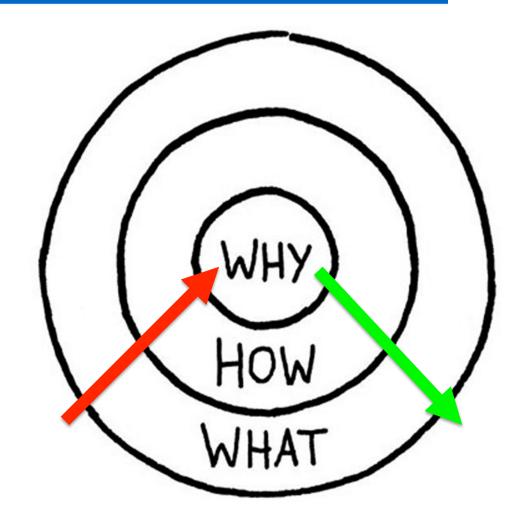


- Nail the communication
- Understand the process
- Use the legislation to your benefit
- Ensure it fulfils your needs
- Pearl's of wisdom



Communication





Why – The Purpose

How – The Process

What - The Result

Simon Sinek - TED Talks

Who is "them"



Estates

Scrub Teams

Projects Team

Finance

Procurement

Surgeons

Cardiologists

Radiologists

Radiographers

Anaesthetics IT/PACS

Team

Equipment Manufacturer



Who is "them"



NHS Foundation Trust

Estates

Scrub Teams

Projects Team

Finance

Procurement

Cardiologists

Radiologists

Radiographers

Surgeons

Anaesthetics

IT/PACS Team Equipment Manufacturer

Remember These:



Estates

Scrub Teams

Projects Team

Finance

Procurement

Cardiologists

Radiologists

Radiographers

Surgeons

Anaesthetics

IT/PACS Team Equipment Manufacturer



Ignore at your peril



Scrub

Teams

Projects Team

Finance

Estates

Procurement

Cardiologists

Radiologists

Radiographers

Surgeons

Anaesthetics

IT/PACS Team Equipment Manufacturer



Ignore at your peril



NHS Foundation Trust Scrub **Estates Projects Teams Team Finance Procurement** Radiologists Cardiologists Surgeons Radiographers Equipment Manufacturer Anaesthetics IT/PACS Team Management

The WHY



"The PURPOSE"

- Better patient care
- Safer service
- List efficiency
- Increased staff cohesion
- Trust image and status
- Service requirement



- In theatre environment
- Better imaging equipment
- Appropriate staff
- Options to convert
- Moving sick patients
- "Waiting to send"
- Brand new kit and options

Guidelines



- MHRA 2013 (NHSCB/A04/P/a, page 10)
 - "The availability of hybrid endovascular theatre, or the firm plans for installation within a short timescale"
- MHRA 2010 (Joint Working Group to produce guidance on delivering an Endovascular Aneurysm Repair (EVAR) Service)
 - "EVAR facilities should ideally be sited within or directly adjacent to an existing theatre complex"

"High quality imaging equipment is crucial"

- GIRFT 2018 (National Vascular Surgery and Interventional Radiology)
 - "Vascular Hubs to provide rapid access to theatre for ruptured AAA, within 30 minutes.... ideally in a hybrid theatre. Timeline: <u>By July 2018 for existing hubs</u>"
- NICE 2016 Major trauma: assessment and initial management February 2016 NICE (NG39)
 - "Availability of interventional radiology within 60 minutes of referral"

The WHY



Business case - The Hard Bit

- Trust format fit "the Strategy"
- Tell the story Pro's & Cons
- Risk of doing nothing
- What you need, not what you want
- Do all the leg work
- Options, locations, costs, staffing models, timetables etc





The How



"The PROCESS" - The Fun Bit

- Design the space
 - Engagement of all clinicians and estates teams
 - Realistic budget
 - What does the future look like
- Kit selection
 - Fit your demands and needs
 - The extra bits you forget

Theatre Usage



TOTICCITIES

What are you using it for / may use it for?

Other applications **New concepts** warit? rocedures · Robotic Hybrid Suite Trauma surgery and F-TEVAR) surgical spinal fixation Transcatheter Mitral MR OR Thoracic surgery Storage space / plant rooms in and out of theatre CT OR stenting, visceral, Other structural heart vertebroplasty Oncology procedures Do you need an anaesthetic room? Urology procedures New concepts Hybrid EP procedures AVM treatment, stroke Control room / viewing a fretaents, aneurysm Robotic Hybrid Suite clipping/coiling MR OR Scrub prep areas CT OR Domot compromise on space!!!!

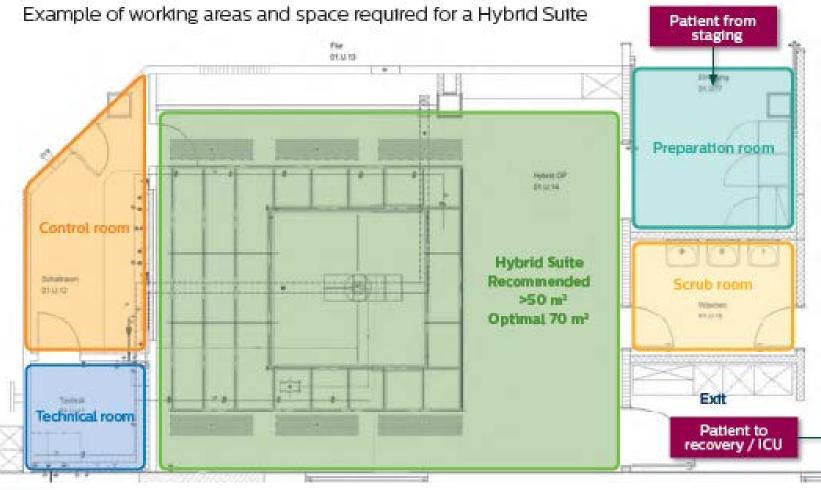
Exam room ideally > 70m²

Minimum of 50m²

Theatre Design



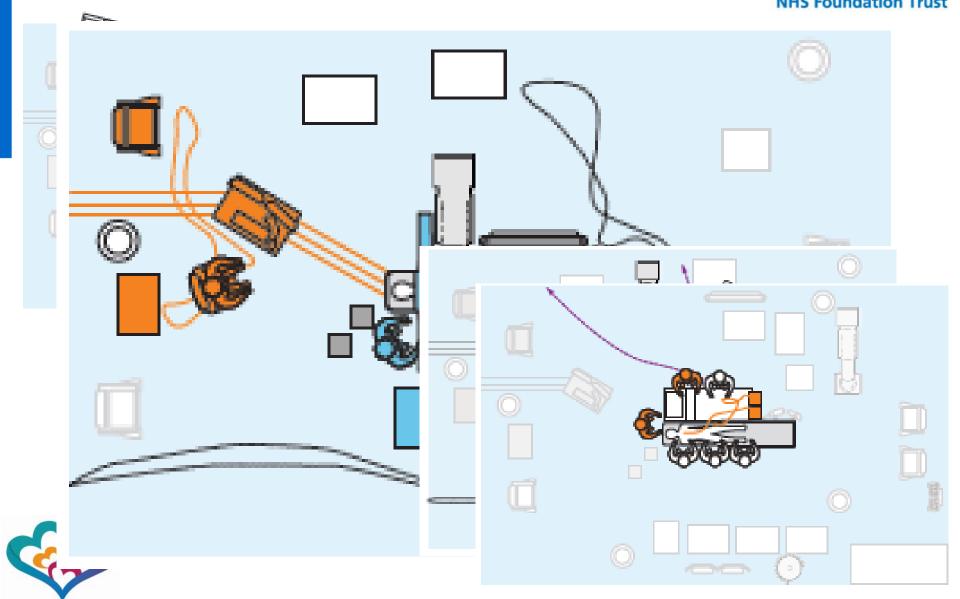
NHS Foundation Trust





Space, space, space

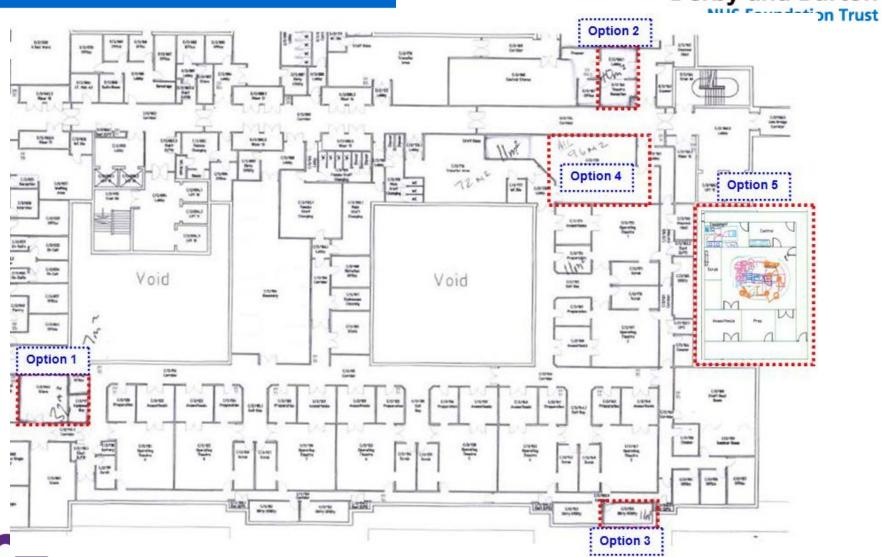




The Location



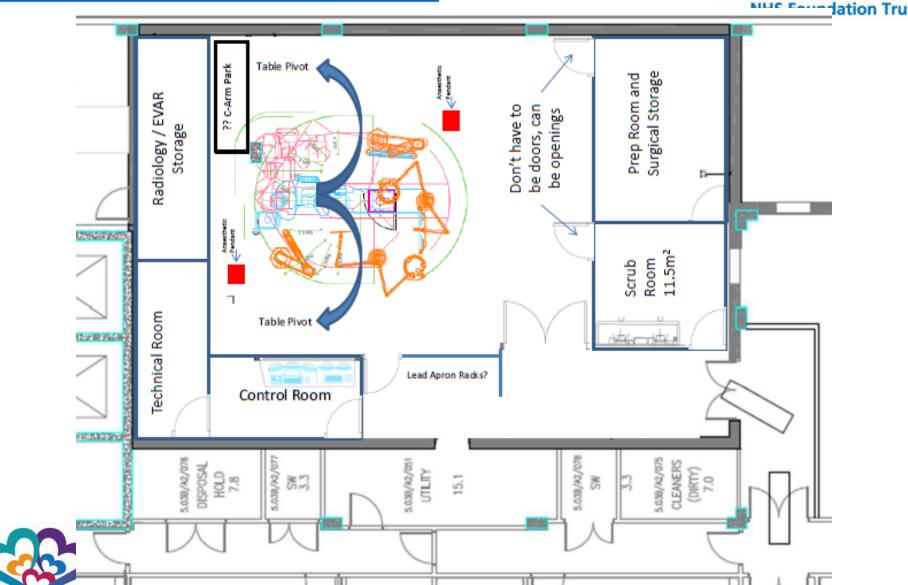
University Hospitals of Derby and Burton



Your Design



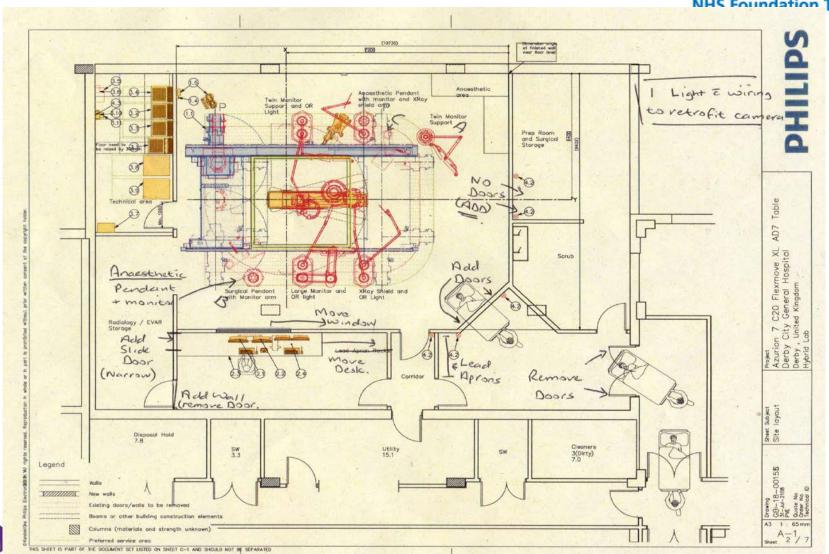
University Hospitals of Derby and Burton



Philips Design



University Hospitals of Derby and Burton



Basic Choices



- C-arm no other option
- 3 phase power (and UPS!!!!)
- Air flow options Lamina flow or not

Floor/ceiling





Imaging Applications



- Not so basic, "Extras / toys" do you need
 - Ultrasound Echo / IVUS
 - Cone Beam CT used by lots of other
 - Overlay Imaging MRI / CT
 - Navigation Embolisation / Ves
 - Dose Awareness System
 - Haemodynamic Monitoring 12
 - Don't buy everything you



The Theatre Kit

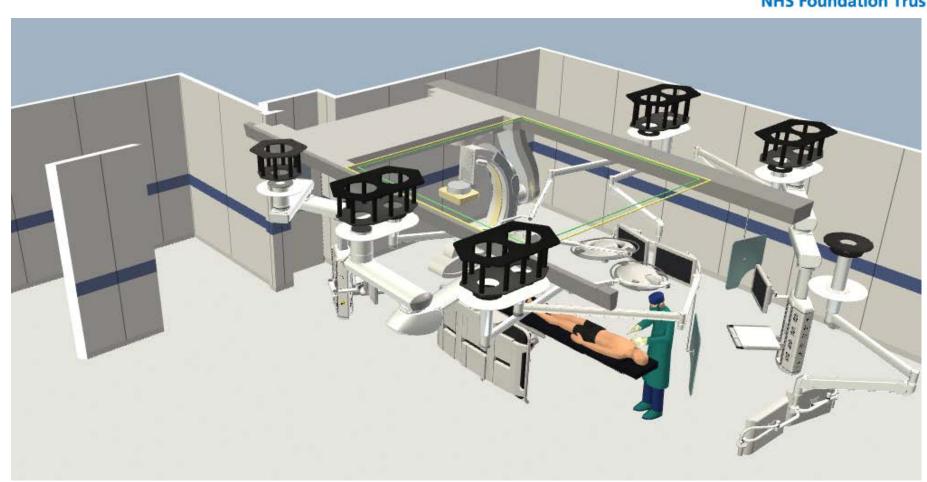


Table – Maquet (additional £~200K) or Manufacturer



Model to play with







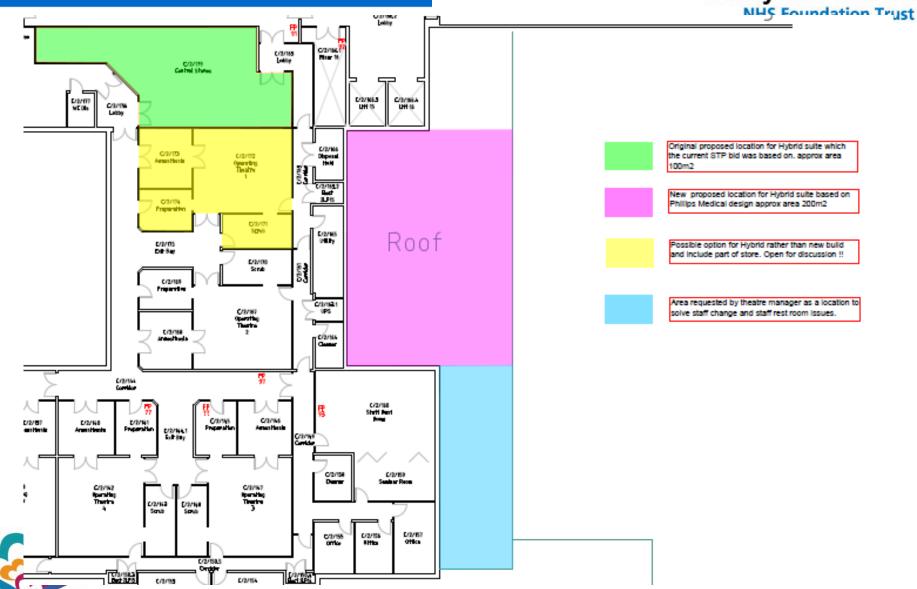
And then.....





Back to the drawing board





The WHAT



"The RESULT" - The Nervous Bit

- Stand back and watch it happen
- Did you / we get it right
- Be prepared for the doubters, inc yourself
- The devil is in the detail
- Don't put off perfection
- Make the most of you Applications Training.







Pearl's of Wisdom



- Always know your WHY
 - You will be asked to justify your choices
- Stick to your guns
- You are the experts for your service
- Plan for 10, 20, 30 years po
- 7 Ps to Success
- Communication is the key





Questions?





