

EPSRC Industrial Engagement Workshop



Recorded by Matthew Allman
Documented by Melanie Hancock

project management programme management strategy execution facilitation product selection vendor selection facilitation change management project management programme management strategy execution product selection vendor se

# A Snapshot of the Day





# Agenda



09:30 am	Arrival (refreshments will be available, and throughout the day)
10.00 am	Session 1: Introduction and Overview
11:00 am	Breakout Session 1: Industrial Training and Research Needs
11:25 am	Coffee Break
11:45 am	Session 2: Prioritisation of Training and Research
12:15 am	Lunch
12:45 pm	Breakout Session 2: The PhD student Journey
2:00 pm	Coffee Break
2:15 pm	Session 3: Meeting the Government's Industrial Strategy
3:15 pm	Wrap-up
3:30 pm	Departure from Hatfield
	//:10

### Objectives



## Objectives

- ☐ To draw out (vitical research objectives for each Specific industry related to this field
- I To explore the training needs for both
  the current and the future employees in their
  sector
- I To identify the structures in which this training and education can be delivered
- II To Share Wear for ongoing industrial Engagement
- [ To pull out some key words that can be used to describe the CDT organisation

Welcoming Attendees





## Welcoming Attendees



Marria	The greatest challenge in				
Name	Aerosol & Droplet science for me is	Name	The greatest challenge in Aerosol & Droplet science for		
Simon Gubbins (Pirbright)	ROLE OF ACCUSOUS IN TRANSMISS. OF LIVESTOCK VIRUSES	Nick Ryan (Steer Energy Solutions)	Taking the science of aerosoh		
David Topping (University of Manchester)	ABZUZTY 70 MODEL ALL CHEMICAL AND PHOCESS COMPLEXZTY ACROSS OOMATAIS	Paul Quincey (National Physical Lab)	into a new industrial environment, the UK gas Newsork  MAKING MEASUREMENTS OF THE SAME METRICS		
Nico Bianco (CMCL Innovations)	TOUTH-SCALE MODELLING OF NANOPARTICLES, FROM ATOMISTIC TO MOLECULAR SCALE, MESO AND CONTINUM SCALE, HAVE THE MODELS COMMUNICATING AT THE DIFFERENT SCALES.	David Hassell (GSK)	DEMUKAGE THE RIGHT DENG AT THE CANSET LOCATION IN THE CANSE.		
Tom Krostrzewski (CN Bio Innovations Limited)	Developing occurate in vitro models to minic lung exposure to chemical/disasy/ particle	Paul Smith (Biral)	Improving the relevance of PAD foreing and excessing awasel training for non specialist engineers.		
David Blakey (GSK)	understanding + cound of surface every binding forces to alliver DT productional.	Sarrah Longworth- Satehnah COOK (Malvern Panalytical)	Understanding how the different parameters relate to device performance & efficacy		
Noel Nelson (Met Office)	NOLE OF AEROSOLS IN DISEASE TRANSMISSION + AIR QUALITY PROGLEMS	Jonathan SymondS (Cambustion)			
Rachel Smith	Improving understanding of behaviors in approaching track.  Training to XICO 05/45/60/1941 m acord see in	Joe Takher-Smith (Mylan Global Respiritory group)	Predicting in vivo behaviour of medical aerosils (deposition, assuma)		
Michelle Dawson (GSK)	Bridgine the gap between small particle properties a bulk behaviour	Virginia Foot assu	Designing feasible experiments that help real-world reconsults and what		
Kerry knox (University of York)	Training in complex 8Kills needed	Heather Oakley (University of Hertfordshire)			
Philip Fiddaman (University of Hertfordshire)	BALANCE OF MANNET FOCUS AND FUNDAMENTAL AESCRACH	Alex Slowey (3M Healthcare)	DEVELOP BETTER MODELS (ILLUTRO & ILL-SILVE) TO ACCURATELY PRESIDEN CHARE LUNG IN-VINO LUNG DEPOSITION & TERRES		
Adam Boies (University of Cambridge)	Modeling of particle formation and growth within a synthesis reactor.	Thomas Krinke	LUND DEPOSITION & THE ERPENTIC RESPOSE FOR INDIDATION DEUGS (UP NOIL) DEU/SMI ETC)  IMPROVE GERATAL MERILUR MEMS  to wash it was Connict, prise refield,		
	-				

## Welcoming Attendees



Name	The greatest challenge in Aerosol & Droplet science for me is	Name	The greatest challenge in Aerosol & Droplet science for me is
Jeremy Clarke	PREDICT PERFORMANCE, MAN OF METORABULTY + STATS LLITY, OF INHALED MEDICINES WITH MIGH FIDELITY.	Agnieszka Carvalho	Acrosol sample conditioning and transport conditioning
Mark Knowles (Bespak)	ACHIEVING OFTIMAL DEVICE PERFORMANCE &  JIN TIME TO MET COSTONICE EXPERTATIONS  MANAGING SUPPLIES MATERIAL CHANGES IN  OKOOK TO MINIME THE MART TO OUR  OKTOMERS & OUR EVENTS	Marc Stettler (Imperial College)	LINDERSTAND SCIENCE OF ADDISING TO SE AGIOTO DEVELOP COMPERCIAL TECHNOLOGIES, HEALTH TREATMENT AND MARKETALLING PRICESSOS.
Alexis Attwood	Developing a broadmost instrument that mades the needs of the advisor community with respect to sensitivity a specificity	Martin Irwin (Cambustion)	Appropriate error analysis prior to modelling - error propagation
Sarah Stevenson (University of Cambridge)	Gain understanding & capture Idean.	Matthew Cliffe (Irolex)	Madelling legis maker intendent in practical way.
Andrew Sapford (Bespak)	Predicting performance ofter Stability strage	Kay Yeong (Dyson)	understanding particle - particle on particle - their and particle - interest interest contains and particle - interest contains and a particle - particle
Mark Giles (alphasense)	HIMCE.	Steve Bajic (Waters)	TO WIDER STAND PROPLET CREATION BAFFAR - UP & EVAPORATION & CONFIRM ATION OF THEORICAL PROJUCTIONS.
Jamie Dyer (Trolex)	Accorate codegorisation at particulate unatter in real-time	James Humphrey	How formulation designed to be used as aerodolsane formulation dependent (elected)
Paul Kippax (Malvern Panalytical)	-linking who on dight facesest uses to formulation promoters.	Steve Nicklin	Art of Re Possible
Murray Booth (Waters)	Accurately Churactersing Sub-mino amonds for Music spec ion Source	Becky Hopkins	SENSING + CHARACTERISATION OF AEROSOLS IN THE ENVIRONMENT
John Pritchard (Philips Healthcare)	TRANSLATING IN VIRRO DATA INTO	Jon Howells	STAFF WITH WIDE VIEW OF APPLIED AGROUDE SCIENCE
Richard Thomas (0511)	UNDERTAKEND A MULTIDISCIPLINARY MERCH CH UTILISME READIOL SCIENCE TO INDERSTAND BIOLISTICAL PROCEDES	Darragh Murnane (University of Herifordshire)	+ 586,02174
Jonathan Reid Wniversity of Bristol)		Matthew Allman (Simply Change)	
lan Colbeck (University of Essex)		Rob Walsh (Simply Change)	

## Working Together

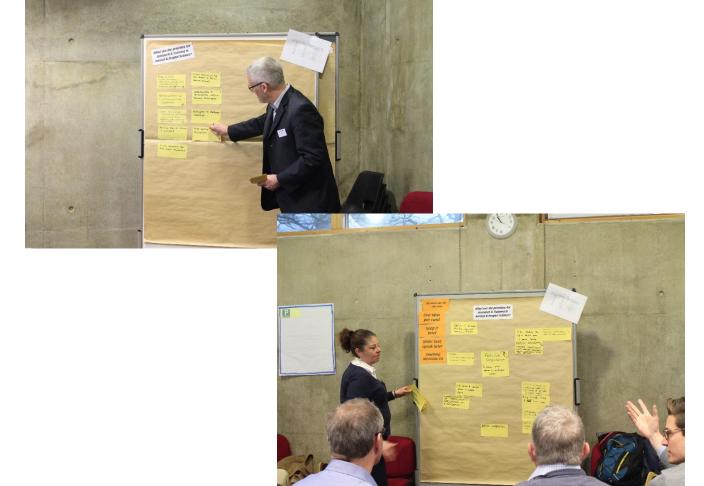


- •Start and finish on time
- ·Seek to understand
- •One person speaking at a time
- Monitor your participation and invite others to contribute
- •Ask questions, be curious
- Assume good intent
- •Give specific examples & explain important words
- •Record discussions and decisions
- Park issues if they are divergent or taking too long
- Phones & Laptops are for break times only
- •If you have to leave early, let us know beforehand
- •
- •

# Prioritisation of Training and simply change Research







# Prioritisation of Training and simply change Research



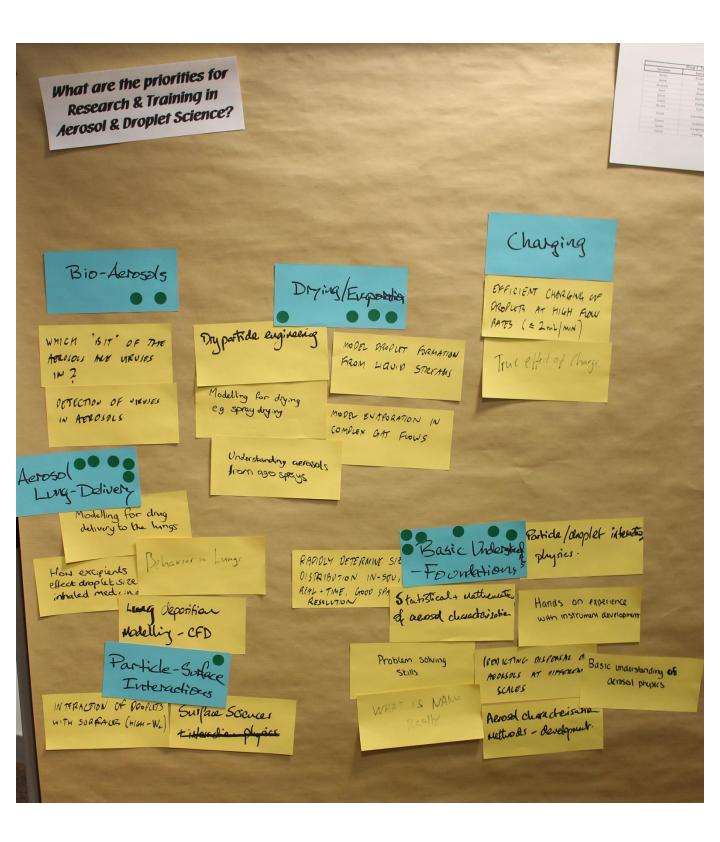


# Prioritisation of Training and simply change Research

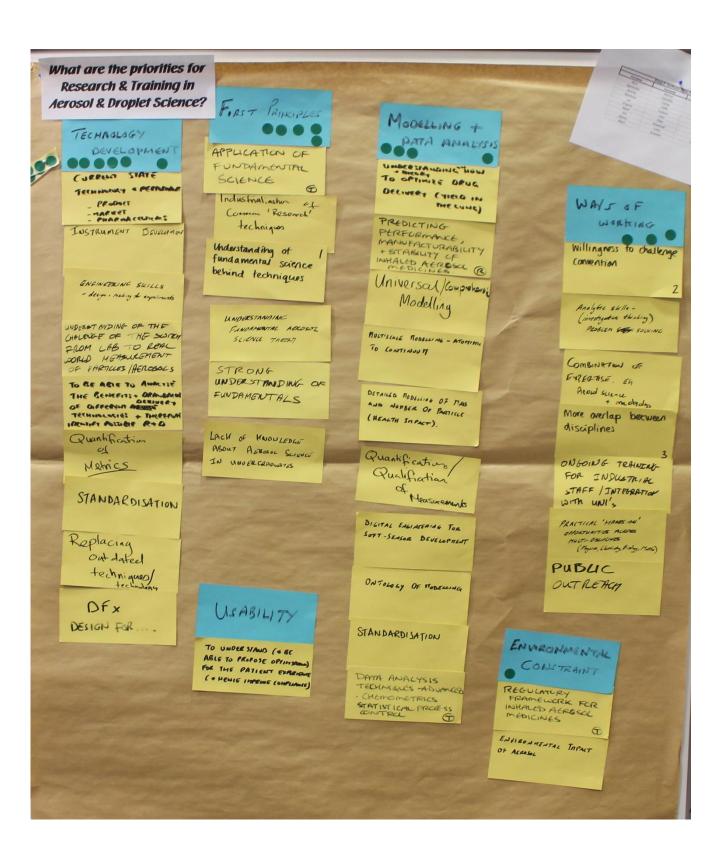




















# PhD Student Journey







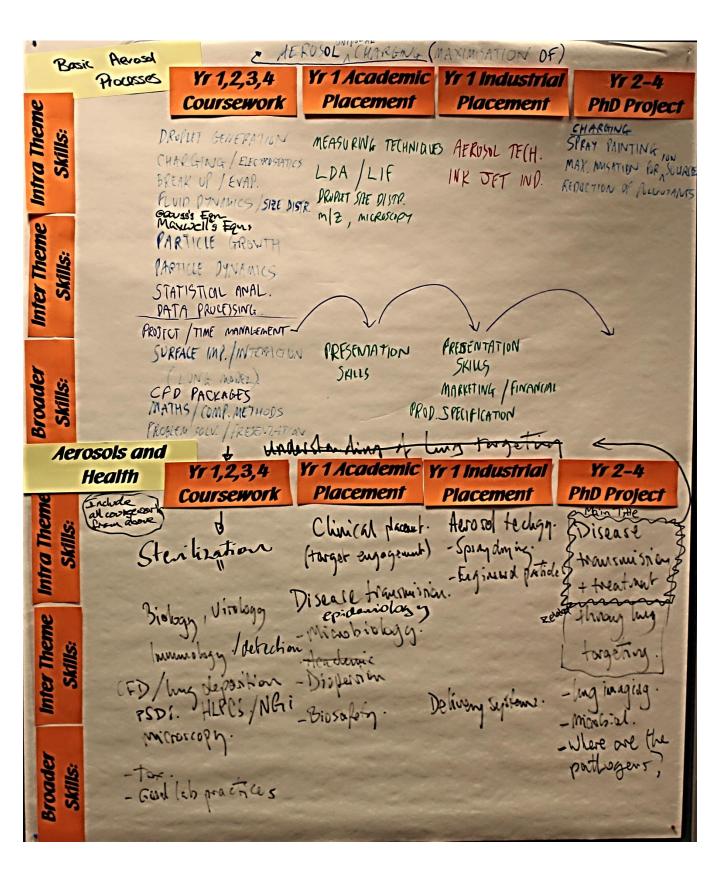




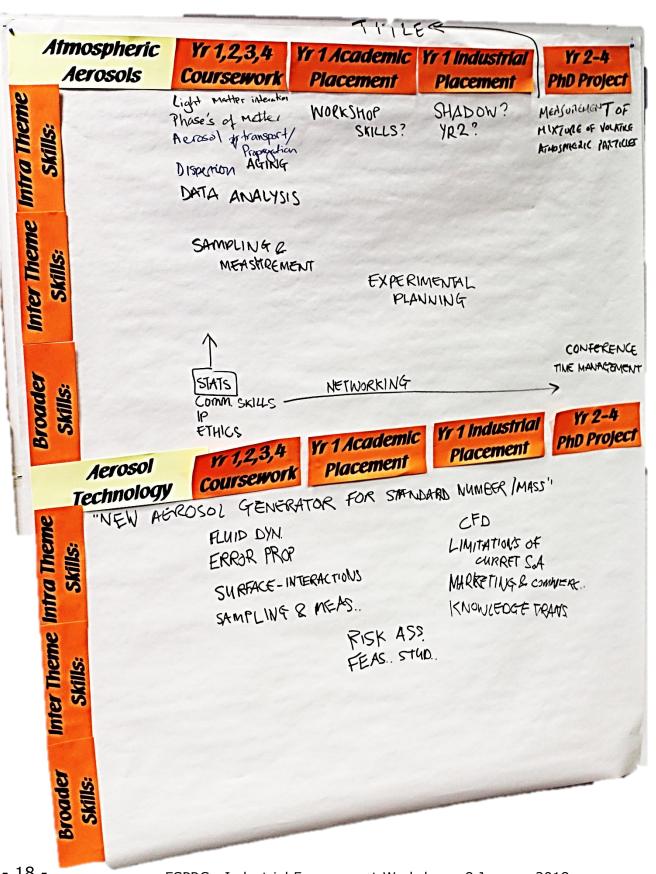












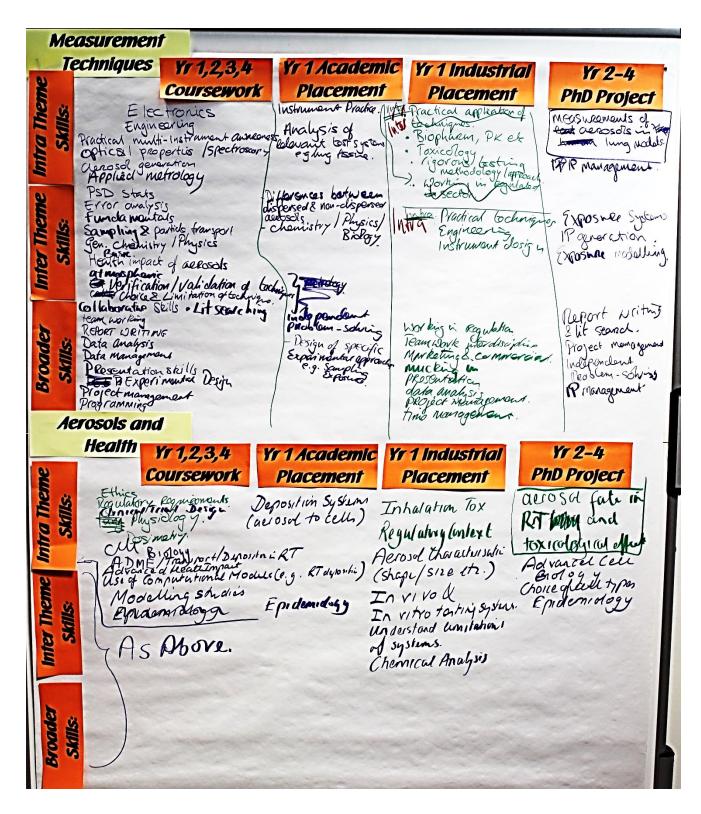


Atmospheric	Yr 1,2,3,4	Yr 1 Academic	Yr 1 Industrial	Yr 2-4
Aerosols	Coursework	Placement	Placement	PhD Project
atmospheric chemis cloud Physics. MITEOTOLOGY air quality regulation sources of atmospheric new particle for whom/her Kinktics	Lab workshops/skill  Statistics  Statistics  Leaner  L	Transport processes Reaction bonetics For Environmental objection Exposure	- more relevant to year 2 or 3 - 6 menths world work for indisting - company inhedular - Rivard in rad world - Physiopeny with thirds	PENETRATION OF  ATMOSPHERIC  ACESSON INTO  INDOOR ENVIRANCE
PEROGRATION 2 REGUSTION 2 REGU	Measurements (Samphing Echaraboration)  LUNGE PHYGIOLOGY	Mernbay	- some taking us  - some taking us  - H&S  - sampling + Analyses  - Test rig design  - IP  Amnol r  Prison	estant runn las bas
Sing design & book experiments.  Project managent.  Statistics present a within present a mortal present a m	Problem Broads 2,3,4	Yr 1 Academic	The contract of the contract o	PhD Project
Techniques  CEU BIOLOGY/SPORT Spections/Sport	tion destanding	Orthogonal Technique Comparisons	application training costinue visits.  1125 as about Fundamental Francis - Assay portocols/ design - Bosiss of public assessment (reprise ments) coplane.	- prototype and serving development
Skills: Skills:				



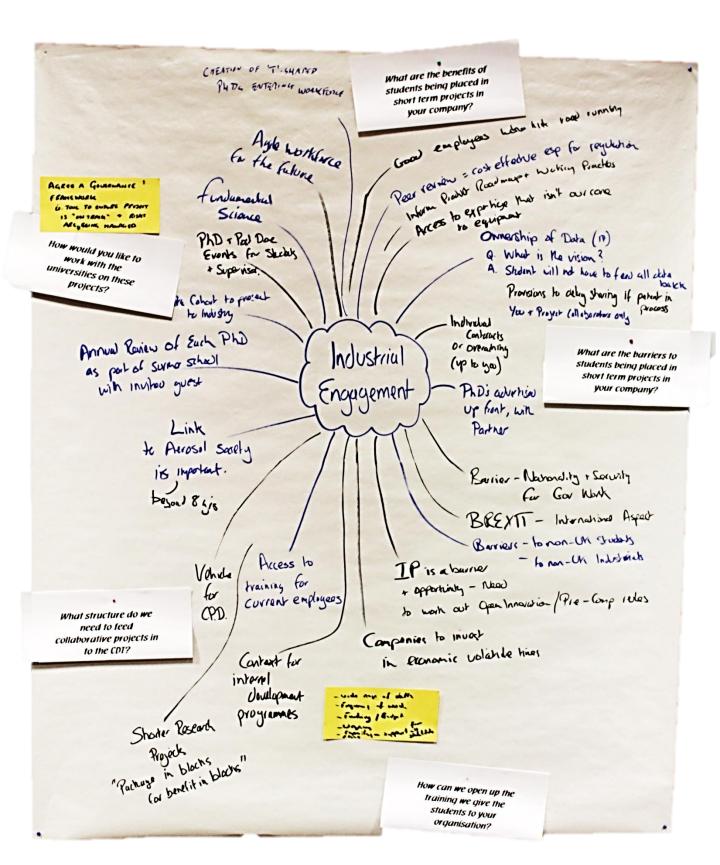
Basic Aero	Aeros		ying	V- O h
Process	Yr 1,2,3,4	Yr 1 Academic Placement	Yr 1 Industrial Placement	Yr 2-4 PhD Project
Skills:	Coursework	Fluid dynamics	Spray drying - thur dynamics - measurement technique	WET/ DEM ACROSE CHENTION: ON - M-6
38		(BASIC A EROSO_PROCESSOR/ AGROSO_TECHNOLOGY)		ACLOS AS & HEADY ACLOS AS HEADY ATMOSTHERIC
Them of the state	OUCH EFFECTS  M SOENCE BASICS  DISATION (DENCES  DISTON MECHANISMS  INTERCTIONS ("OPEN AIR	Themodynamics Moss to another theat the Pulmonary deposition in theose they acs + electrically acs + electri	ansfer a country	
Literation State	we searching hise with your winter	Interpersonal skills Time management Matrix Heam work Sign is issues / bakents	Safety 1 cos 44 More T skills	TIME DISCIPLINALY  TROBLEM SOUTING  TROBLEM SOUTING  TROBLEM SOUTING  TROBLEM SOUTING  THINKING +  THI
Aero Techn	osols + Health lology Yr 1,2,3		mi	Yr 2-4 PhD Project
Intra Theme Skills:	Coursew	MEASURING P.N SOURCE CHREAD CHONICAL YECIA	1. Measurement	IN WIRD  - IN VIVO  CORRELATION
0	2	Atmosphenc on arosas		EN ROUMENTAL MODELING
Inter Them Skills:	DISSELUTION KINETICS THECHODYNAMICS THUS-CHON CHALACTERS ACCOST / LUNG INTERACTION - A	on? DHM 3010 CL ( NUC VACCOSTICAL) VACCOSTICALON (DEVICES		
Broader Skills:	Phics Chical government			





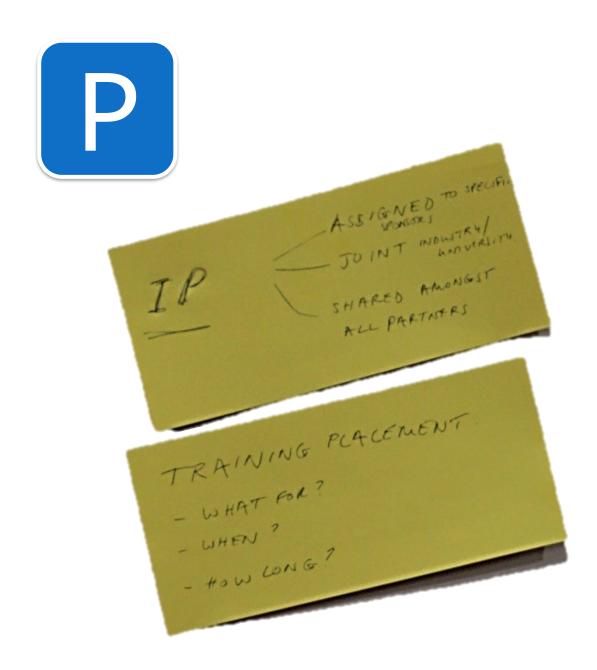
## Industrial Engagement





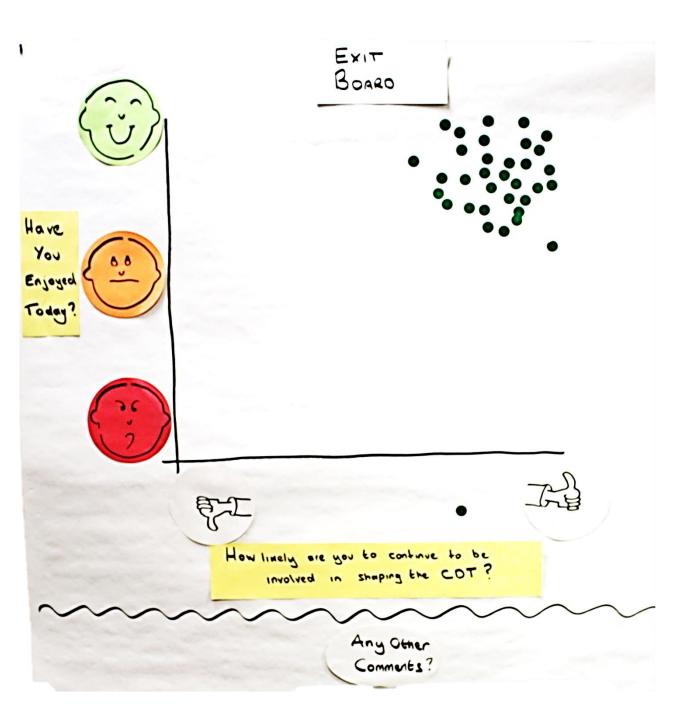
### The Parking Lot





### Feedback







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