



# Engaging Communities



**Contacts** - Emma Halliday, FHM

**Agendas and Expectations** - Helen Ryan, Lancaster City Council

**Events** - Jane Taylor, LEC

**Working with Groups** - The IDEAS Team

**Outcomes** - Gemma Coupe, LICA





# Working with Groups

1

## Sharing

Using knowledge and experience that is common to participants.

The intellectual and social basis for collaborative working.

2

## Exploration

Enabling participants to work together to explore new questions or ideas.

Divergent; creating new concepts, ideas and perspectives unique to the participant group.

3

## Formation

Enabling participants to filter concepts, create consensus and compare discoveries.

Convergent; creating explicit, standalone outcomes that can be used beyond the engagement itself.

4

## Action

Ensuring ongoing value from the work done by participants.

Building in longevity and impact to ensure all participants benefit from their contributions.

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who are you?  
Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group

Name: **LEON CRUICKSHANK**

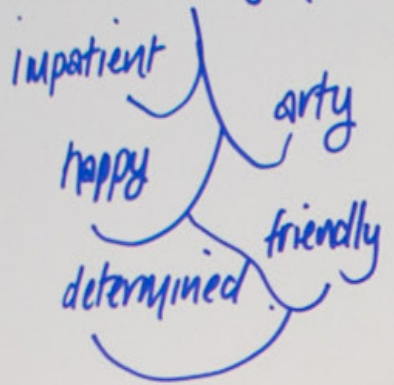


DESIGNER, RESEARCHER, FACILITATOR, PLAYFUL, ~~RESEARCHER~~ ACADEMIC

Leapfrog Young People Partner Scoping Meeting  
Tuesday March 24 2015

who are you?  
Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group

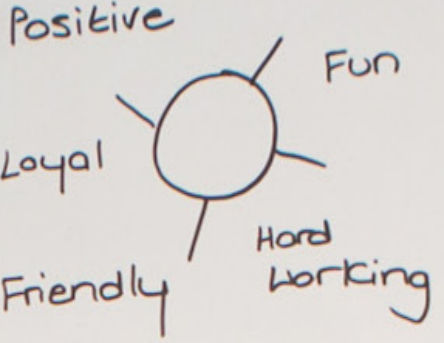
Name: **Nicola Paterson**



Leapfrog Young People Partner Scoping Meeting  
Tuesday March 24 2015

Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group


Name: **JENNIFER MILLIGAN**



Leapfrog Young People Partner Scoping Meeting  
Tuesday March 24 2015

who are you?  
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Name: **EMILY GLEKIT**




NICE  
iterating  
creatorator

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Tuesday March 24 2015

who are you?  
Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group

Name: **Gemma Coupe**




Design-Manager  
Intrigued today  
Home ♡  
mad-cat-lady

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who are you?  
Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group

Name: **deborah r. Sims (RA)**



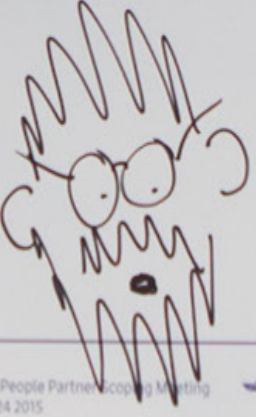
- libertarian
- indigo
- sensitive
- animals
- noam

Leapfrog Young People Partner Scoping Meeting  
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who are you?  
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Name: **ROGER WHITHAM**

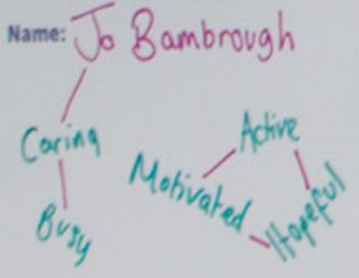
RESEARCH, DESIGN, VISUAL, DIGITAL, TECHNOLOGY



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Tuesday March 24 2015

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Tell us your name and describe yourself using 5 words and by drawing 5 lines, you will have 5 seconds to articulate this to the group

Name: **Jo Bambrough**




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Name: **Jill Connolly**

Interested  
Compassionate

Busy family  
Nerdy.



Leapfrog Young People Partner Scoping Meeting  
Tuesday March 24 2015



HOW MANY SHOWERS DO YOU HAVE IN ONE DAY? AMERGGHHH !! AM? PM?

What did you do?

**The Worst Icebreaker**

Why did it not work?

WAAAAAY TOO PERSONAL

Each person submits a remarkable fact about themselves → the group has to

What did you do?

**The Best Icebreaker**

Why did it work?

guess who has done what

INTRODUCTIONS AROUND THE ROOM

What did you do?

**The Worst Icebreaker**

Why did it not work?

INTIMIDATING, DON'T RETAIN

SYMP

What did you do?

**The Best Icebreaker**

Why did it work?

go more around, find connection with people they don't know

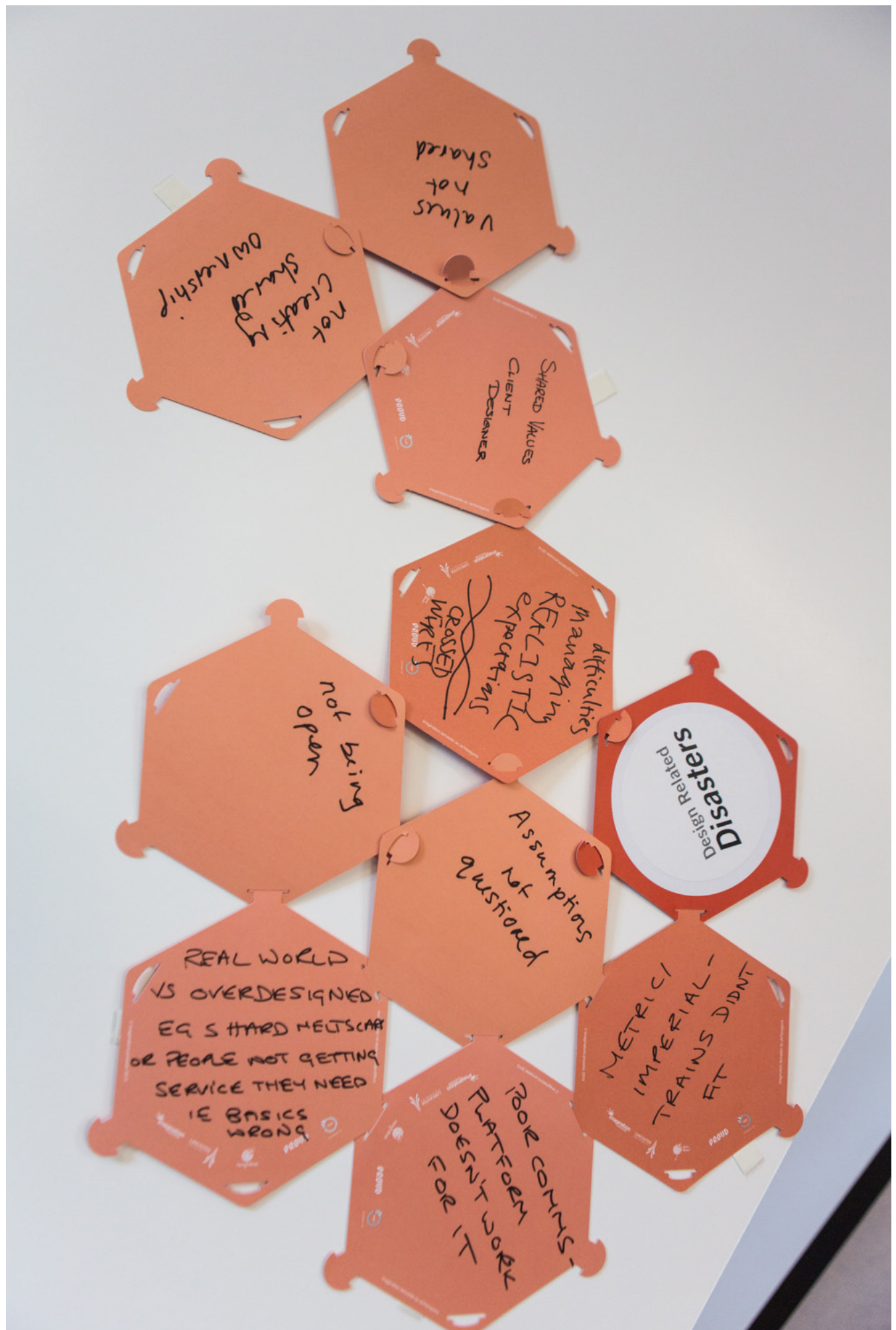
THE ONE WE HAVE JUST PARTICIPATED IN!

What did you do?

**The Best Icebreaker**

Why did it work?

DON'T REALISE THAT YOU ARE ACTUALLY BREAKING THE ICE, INFORMAL NATURAL CONVERSATION.





# EVERYDAY FACILITATOR

MR/MG  
FACILITATOR'S NAME: BEN HANDS

EASY FLOW FACILITATION  
"I CAN FACILITATE YOU HAPPY"

CORE SKILLS:  
1. CROWD CONTROL  
2. GOOD AT PLANNING + FLEXIBLE  
3. CREATIVE DESIGN OF ACTIVITIES

EVERYDAY TOOLS:  
1. EVENT PLAN  
2. SHARPIE & LOVELY STATIONARY  
3. MANAGING GOOD FOOD + COFFEE

LIMITATIONS:  
1. PERSONAL STYLE OF FACILITATION  
2. EXPENSIVE BECAUSE HE'S REALLY GOOD  
3. CAN ONLY BE IN ONE PLACE AT ONE TIME

# SUPERHERO FACILITATOR

SUPERHERO NAME: Mass Effect



SUPER POWERS:  
1. INFECTIOUS EMPATHY HELPING EVERYONE UNDERSTAND EVERYONE ELSE'S POSITION  
2. MIND READER - READING THE MINDS OF PEOPLE BEFORE THEY ATTEND TO GIVE THEM THE PERFECT EXPERIENCE  
3. CONTROL TIME - TO GIVE ACTIVITIES MORE OR LESS TIME DURING A WORKSHOP ACTIVITY.

SUPER TOOLS:  
1. HALLUCINOGENIC IDEA GENERATING SPRAY  
2. Pop up innovation lab  
3. Stropky participant muzzle

LIMITATIONS:  
1. ALLERGIC TO POST-ITS  
2. CAPTAIN DIDACTIC  
3. NEED SUNLIGHT EVERY 2 HOURS

# EVERYDAY DESIGNER FOR THE PUBLIC SECTOR

MR/MG  
DESIGNER'S NAME: JO REALITY

EXPANDED HORIZONS  
"GUARANTEED!"

CORE SKILLS:  
1. VISUAL SKILLS  
2. COMFORTABLE WITH UNCERTAINTY  
3. BEAUTIFUL HANDWRITING

EVERYDAY TOOLS:  
1. [Drawing of a pen and paper]  
2. BIG EARS & SMILE  
3. PEOPLE

LIMITATIONS:  
1. NO PERFECT (Sorry about that)  
2. TOO COOL FOR SCHOOL  
3. GEEK/NERD  
4. NAE PATTY!

# SUPERHERO DESIGNER FOR PUBLIC SECTOR

SUPERHERO NAME: Julie Maguire



SUPER POWERS:  
1. Super power persuasion + Vision + Magic Wand + Random Job  
2. Instantaneous PhD on every imaginable Policy + Strategy + Topic known to the universe  
3. Ectoplasm Personality Engagement Skills

SUPER TOOLS:  
1. Empathy X-ray  
2. Future-goggles  
3. Shoes with initiative pace-regulator

LIMITATIONS:  
1. Sometimes reverts to anger  
2. (Slightly) over-inflated ego  
3. Short battery life... gets bored quickly... ZZZZZ  
4. THE RECLINER

# EVERYDAY COMMUNITY SERVICE DELIVERER

MR/MS: Wendy Hays  
SERVICE DELIVERER'S

Here to solve your housing problems

CORE SKILLS:  
1. PERSONABLE - UNDERSTANDS THE NEEDS OF USERS, BUILD RAPPORT & IS EMPATHETIC  
2. ORGANISED - COORDINATES ALL RESOURCES  
3. KNOWS COUNCIL POLICY INSIDE OUT

EVERYDAY TOOLS:  
1. THE COMMUNITY THEY WORK WITH  
2. COUNCIL RESOURCES - policy, services, training  
3. AUTHORITY

LIMITATIONS:  
1. DIVORCED  
2. COMMUNIST  
3. FU...  
4. NAE PATTY!



**SUPERHERO COMMUNITY SERVICE DELIVERER**

**SUPERHERO NAME:** [Blank]

**POWER RELAYMENT NAME:** [Blank]

**PERSONALITY:** [Blank]

**KEY SKILLS:**

- 1. **PLANNING**
- 2. **COMMUNICATION**
- 3. **PROBLEM SOLVING**

**EVERYDAY TOOLS:**

- 1. **BE ORGANIZED**
- 2. **BE POSITIVE**
- 3. **BE RESPONSIBLE**

**MISSION:**

- 1. **BE RESPONSIBLE**
- 2. **BE POSITIVE**
- 3. **BE ORGANIZED**

**PERSONALITY:**

- 1. **PERSONALITY**
- 2. **PERSONALITY**
- 3. **PERSONALITY**

**KEY SKILLS:**

- 1. **PERSONALITY**
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- 3. **PERSONALITY**

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**KEY SKILLS:**

- 1. **PERSONALITY**
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- 3. **PERSONALITY**

700 islands



FUTURE:  
Families work

Surplus / lower level social work cases.  
→ Early Support.

communities & target groups

Young People 13-19

OPPORTUNITY

NEED

LANCAASHIRE

geographic digital reach

Lancaster  
Wyre Fylde Ribble Valley  
Bunley Preston  
Pende Huddersfield  
Charley Rosendale

hopes for future

involved in new service design

Youth Strategy

Young people have services available that meet their needs.

YOUTH ZONES.

CYP MTF Multi-agency forum

partners & networks

Children & Young Peoples Trusts

Youth Parliament (AYC)

Vol Orgs

Schools & Colleges.

New World Families 0-19 W, P & E.H.

Robinson Consultation 13-19 age.

purpose & vision

Information Services & Support.

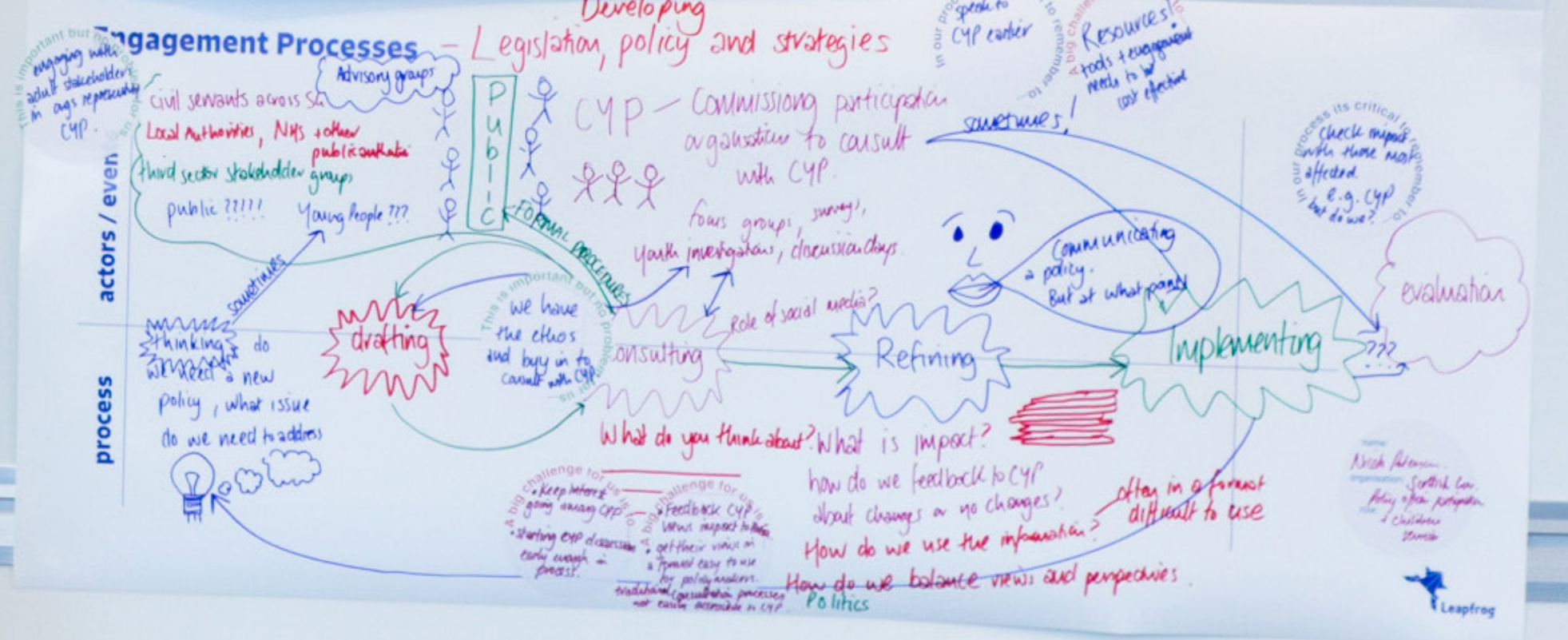
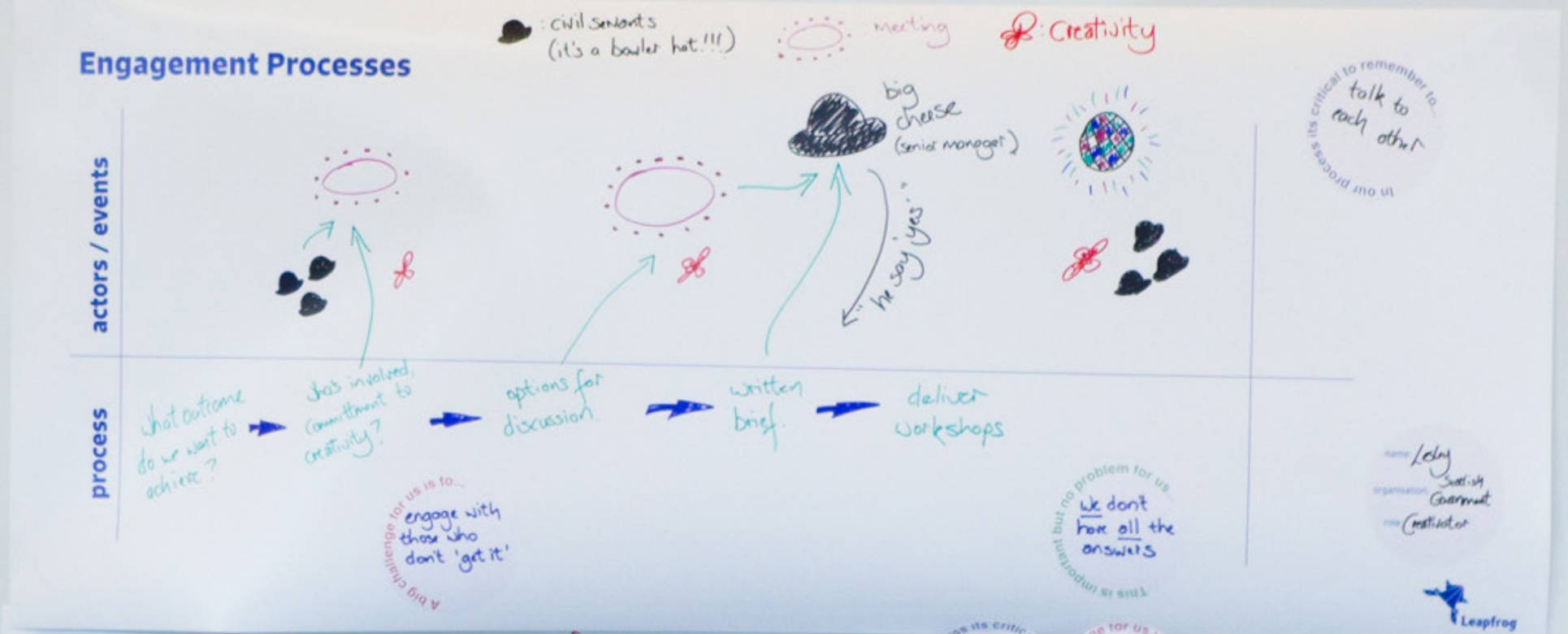
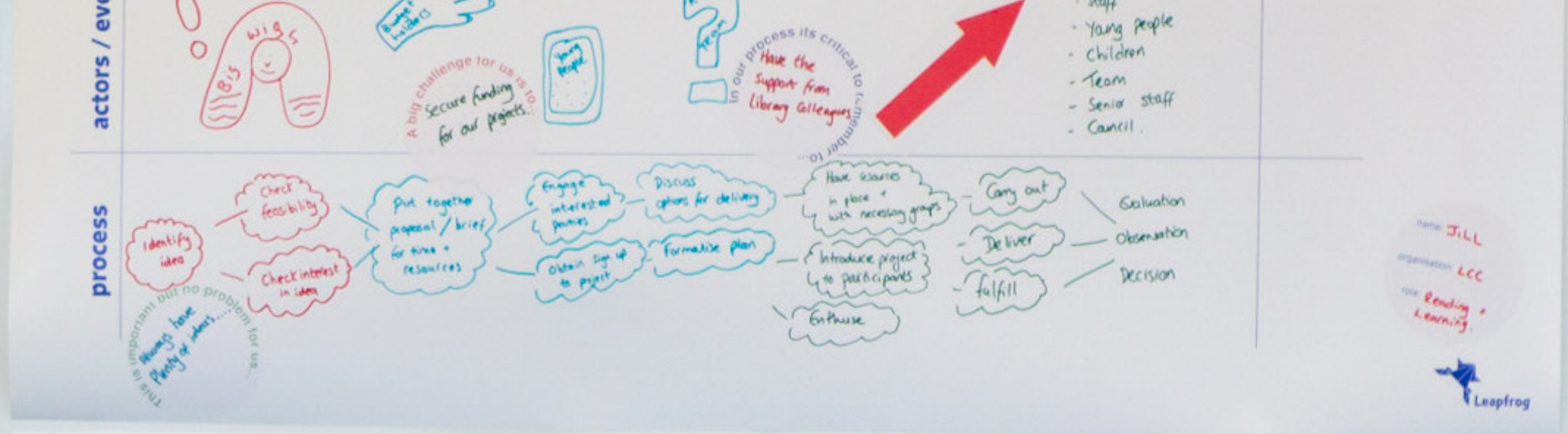
Tracking destinations

Increasing Family Orientated

Youth Clubs / Opportunity



name: Jo  
organisation: YPS Lancashire Council  
role: Council Voice & Influence Worker.







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Balloons  
AUSIES

Yellow  
pages.

Track  
Records  
(no commands to live)

FLATS

CASE  
STUDIES

BLOG

Risky  
Writing

Conferences  
& Educational  
STOCK

Word of  
mouth

Word  
of mouth

VIDEO

Golfing  
Umbrellas

Let's  
Go

Cartoon

Back  
of bus

Subs

Commer  
cials

Billboards

OEM'S

posters

POSTER  
SPECIAL  
TEXTING

Lobbying

Documentary

Samples

Documentary

Documentary

Documentary

Documentary

Documentary

Documentary

as support  
that you may face in

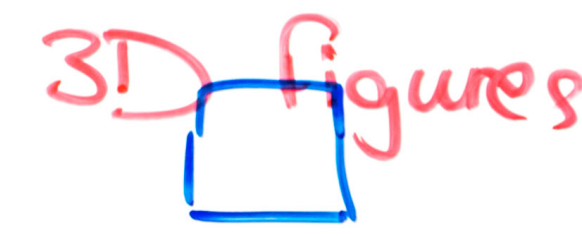
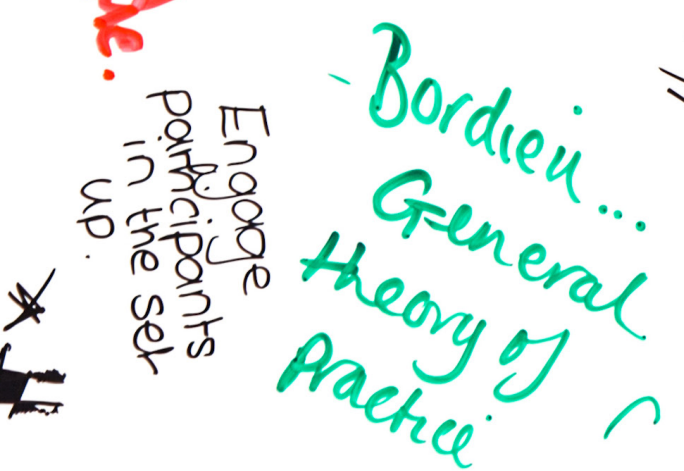
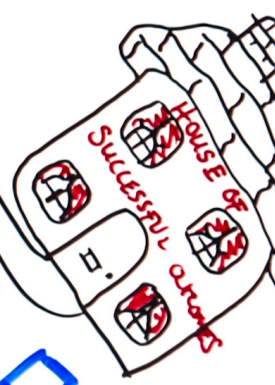
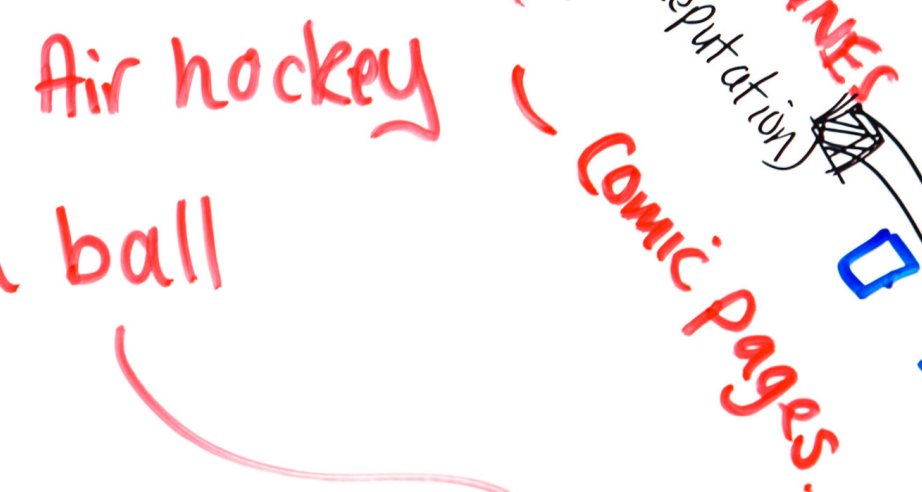
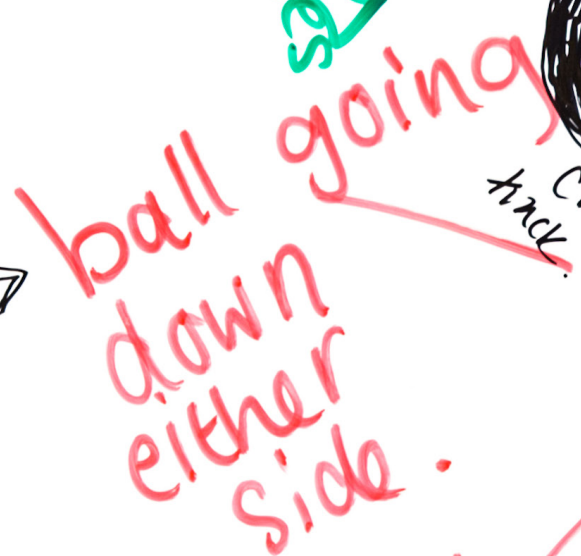
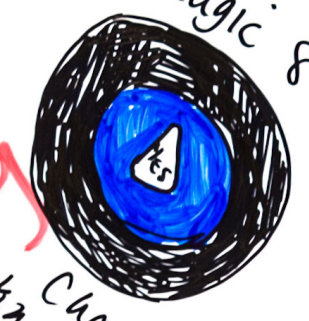
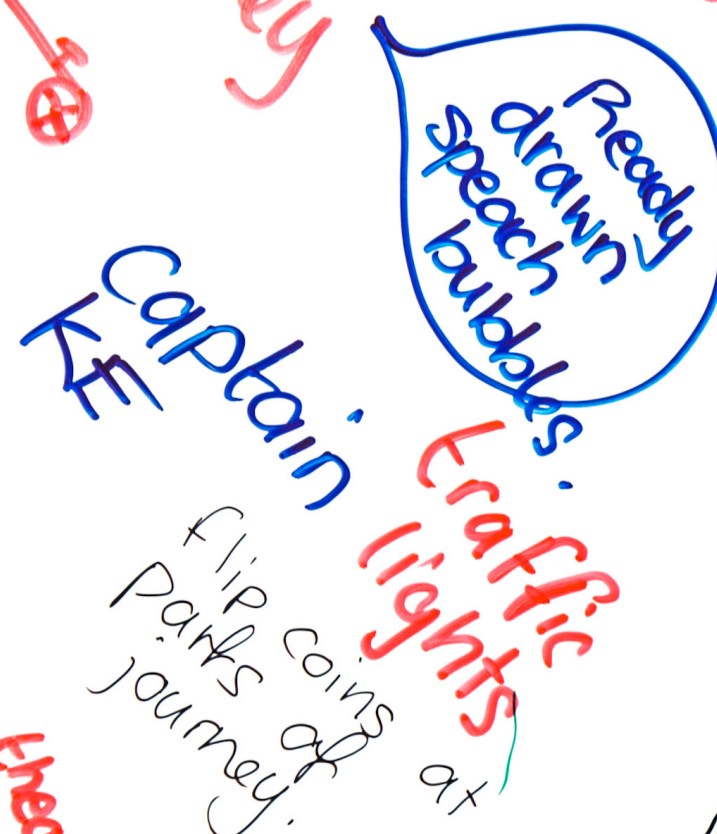
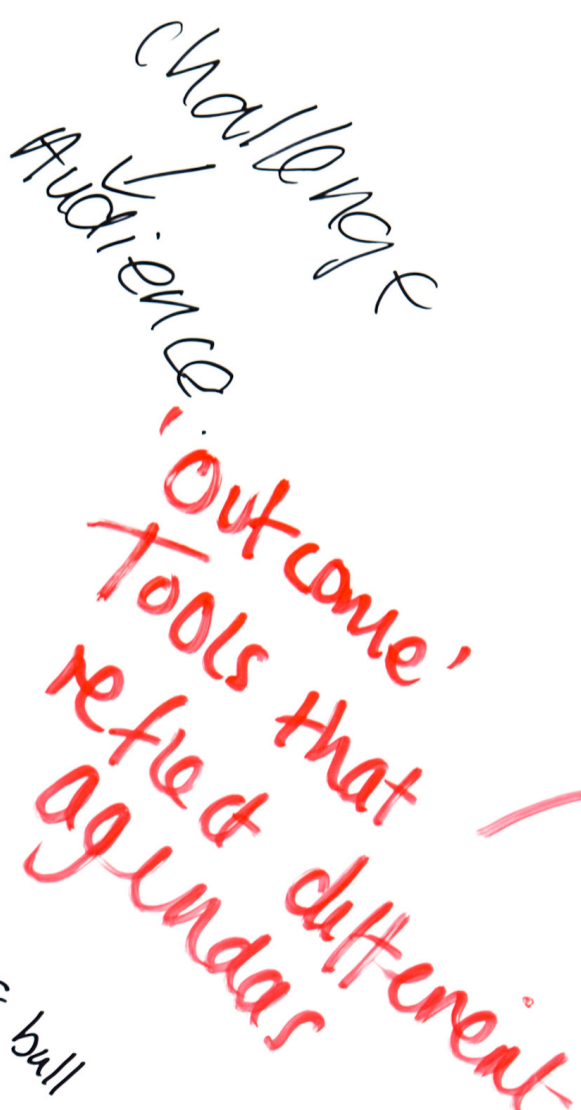
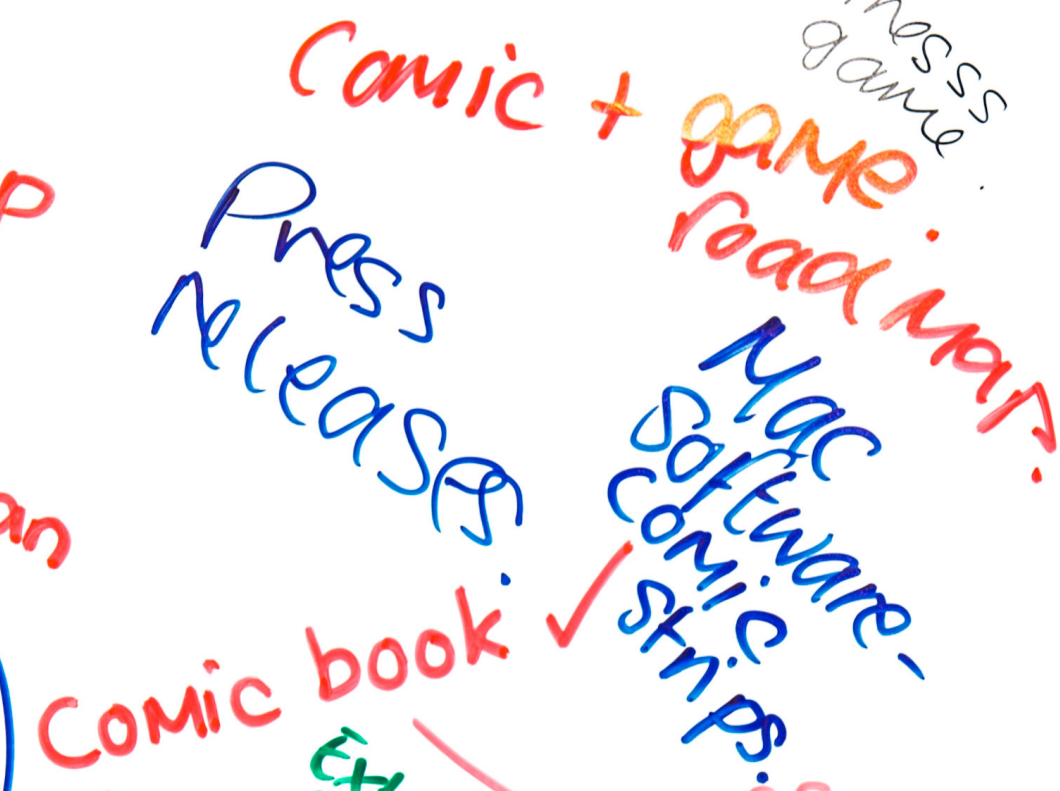
Don't jump to asking for what you want.

# Imagining Outcomes

show an intention to do something buy into.  
Individuals describe the best and worst possible outcomes for a project/process. The specific ideas are not relevant, but it will reveal their thinking and goals.

- How could this be developed into something you would use at the start of a meeting?
- Would it have helped in the past with respect to a particular project/activity?
- Can you refine the forms to improve them?
- What would be most appropriate for the context in which you might employ this?
- Other barriers to use?

go viral



Best lessons / worst lessons.

Road map is easier to implement

Contracts /

Communication

Different priorities  
- sometimes clashing

CONFLICTING AGENDAS

GEOGRAPHY

TIME

REWARD & RECOGNITION

Keeping teams in place

Defining KE

Communication

SCOPE

CULTURE

MOTIVATIONAL CONFLICTS  
(BETWEEN KE PRACTICES)  
COMMUNITIES + UNIV.

EXPECTATIONS  
What do we/you get out of KE

Working with new people  
- trust building

Sustainability

Measurement of Impact

Expectation of Funding Bodies

ACADEMIC ENGAGEMENT  
(particularly early career researchers)

Different clock speeds

TIME SYNCHRONISATION  
(TIMELINESS)

'KE' AS A 'CORE' ACTIVITY

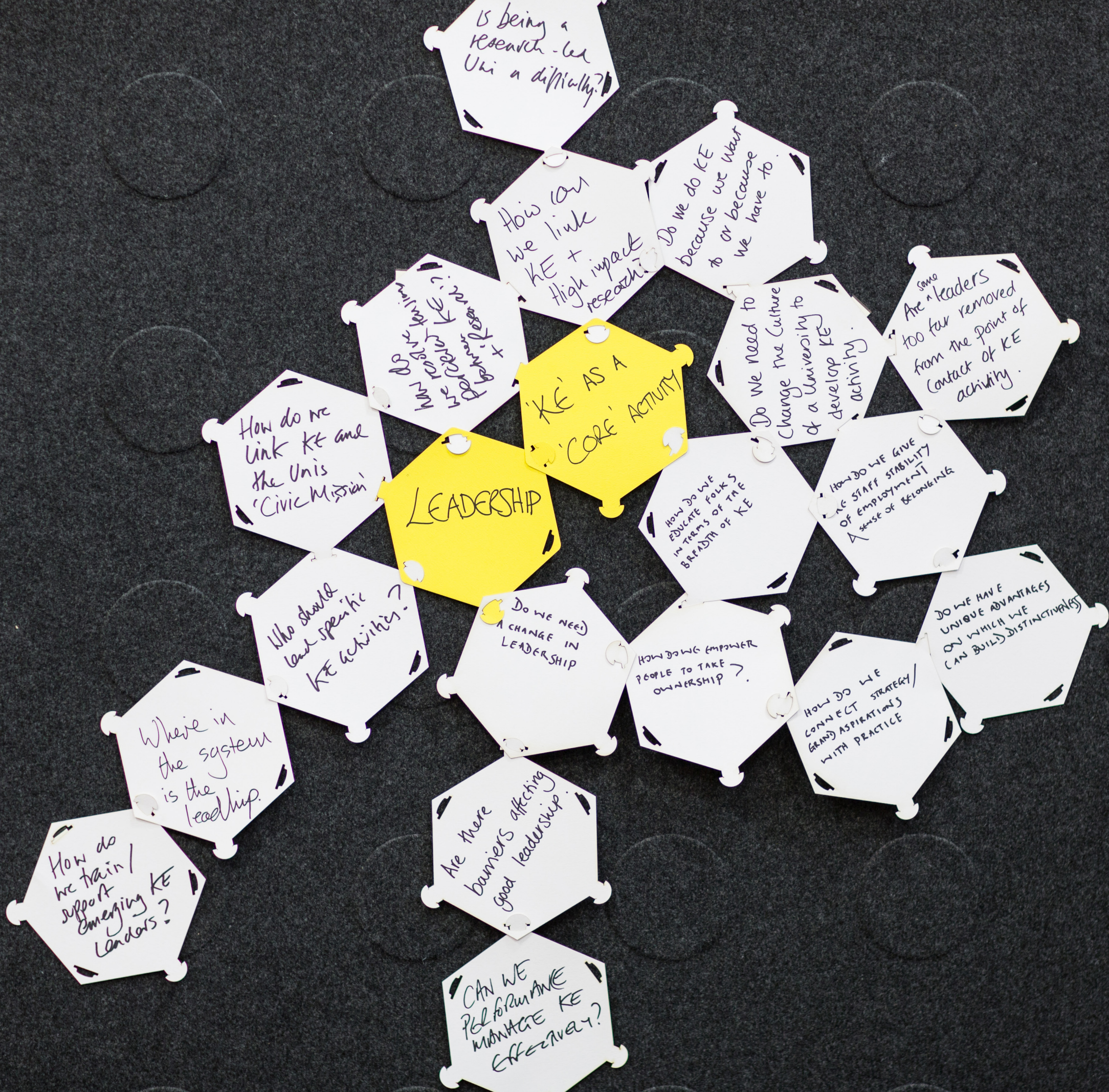
FUNDING

PICKING WINNERS  
(PARTNERS FUNDERS etc projects)

TIME

UNIVERSITY SYSTEMS  
(RESEARCH; FINANCE)

LEADERSHIP



Mix comfortable and novel frames.

TRACKING

tracking objects  
tracking collectors  
tracking objects  
tracking collectors  
tracking objects  
tracking collectors

SENDING eg HOT CARD LOCATION  
Collecting data - sensors

FLUIDITY + TRANSPARANCY (FORM ETC.)

cut + paste culture  
breakdown of night/day + global/local  
digital craft  
cut + paste culture  
breakdown of night/day + global/local  
digital craft

BREAKDOWN

EXISTING PROJECT

TINKERING + MAKING

HACKING  
New materials/recycle  
open source  
3D printing access  
How to Recipe/Image ingredients  
Hack/cut + paste/invent

Community sharing  
Object re-mix  
amateur experts (eg RepRap) + hacking as new forms of innovation

Object + human learn together  
hacked object lead to hacked human behavior

OBSOLETE WITH NETWORKED AI  
MAKE THINGS WHICH CAN LEARN (NEURAL NETS) & BEHAVE (GENETIC ALGORITHMS) FROM THE CONDITIONS/ENVIRONMENT/REQUIREMENTS OF OUR THEM.

LEARNING TRACKS  
EMERGING EXPERIENCES  
IMPERFECT DISCOVERY  
PLAY & SER.  
SEARCHING  
COMBINED ACTIVITY - BUILDING AN IDEAL PERSONA.  
TRAINING AS FOCUSING TO USE THE TWO INFORMATIONAL  
GENERALIZING  
VALUE - LEARNING TO BUSTING SET THE ANSW.  
COOPERATION  
LIFE LONG LEARNING - BEHAVIOR CHANGE - WILL WE CARE WHERE OR INFORMATION IS? WE WILL NEVER GET LOST AGAIN.  
PRIORITY

DYING  
FUTURE GHOSTS - TEA SECTORY OF LIFE  
DIA - STAILORED MADE OBJECTS - PEOPLE - CONCEPTS  
CYBERG LIFE  
STEALING - CHIP.



AUGMENTED BODIES/CONSCIOUS  
- WHAT WILL IOT DO TO OUR MINDS?  
- WHAT WILL DO TO RELATIONSHIPS.

I CHOOSE IT CARES WHO CHOOSES?  
X Y Z  
AUGMENTED THINKING  
TRUST

BODY PARTS  
PARTS OF BODIES  
BODIES AS PARTS  
BODIES IN CROWDS  
(CROWDS AS A BODY)

SENSING BODIES  
PEOPLE - NATURAL SENSING.  
CONTINUOUSLY EVERYDAY PRACTICE  
BEHAVIOR CHANGE + ENERGY CONSUMPTION + LIVING.

TINKERING  
Designing for ageing, repair, for personal

REVISIONING COMMUNITY THROUGH IOT AND TINKERING, MAKING, HACKING

OBJECTS + SYSTEM

COMPETITIVE  
3G + 4G NETWORKS  
PRECISIONING US FOR FUTURE GHOSTS.  
OBJECTS AS PART FOR CONNECTING TO OTHER OBJECTS  
RELATIONSHIPS  
OBJECTS AS PART FOR CONNECTING TO OTHER OBJECTS  
RELATIONSHIPS  
OBJECTS AS PART FOR CONNECTING TO OTHER OBJECTS  
RELATIONSHIPS  
FORGIVE ANYTHING ANYWHERE  
ID OF OBJECT  
PRODUCT + CONTEXT IS THE PRODUCT

USER

USER (US)  
EXPERIENCE  
PEOPLE EXPECT BETTER!  
BETA DESIGN  
theory of IOT doesn't allow for human behavior  
BETA - REAL TIME DESIGN  
INTERFACE  
HUMAN INTERACTION  
THAT 'THINGS'?

Economics & Business

Social, Legal & Ethical

Technology

WHAT ARE THE IMPLICATIONS OF SHARING MORE WITH INTERNATIONAL SPACES?

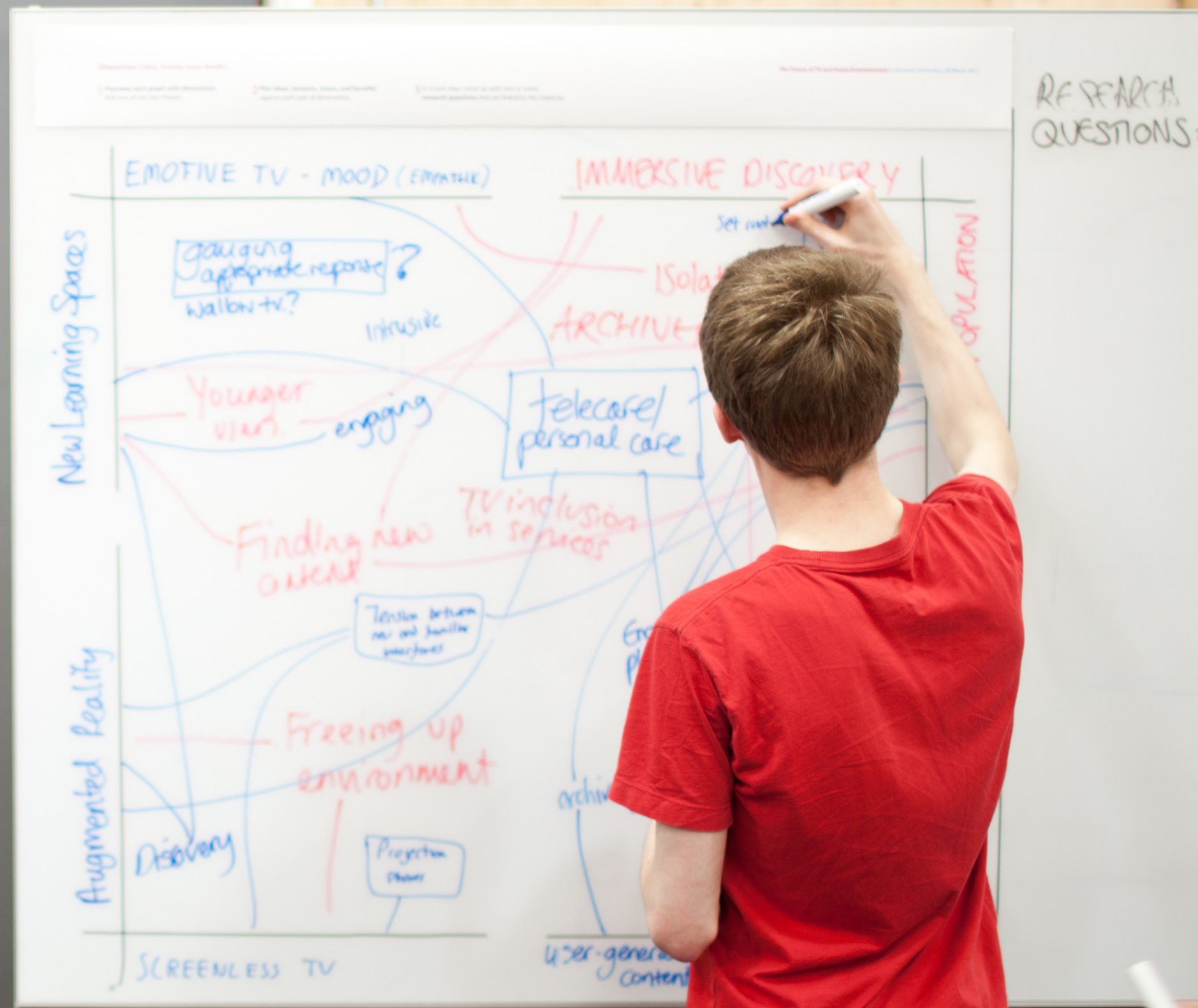
WHAT ARE THE ECONOMICS OF PLAYABILITY?

HOW DO WE MANAGE THE ALGORITHMIC SHIFT WITHIN AN IOT?

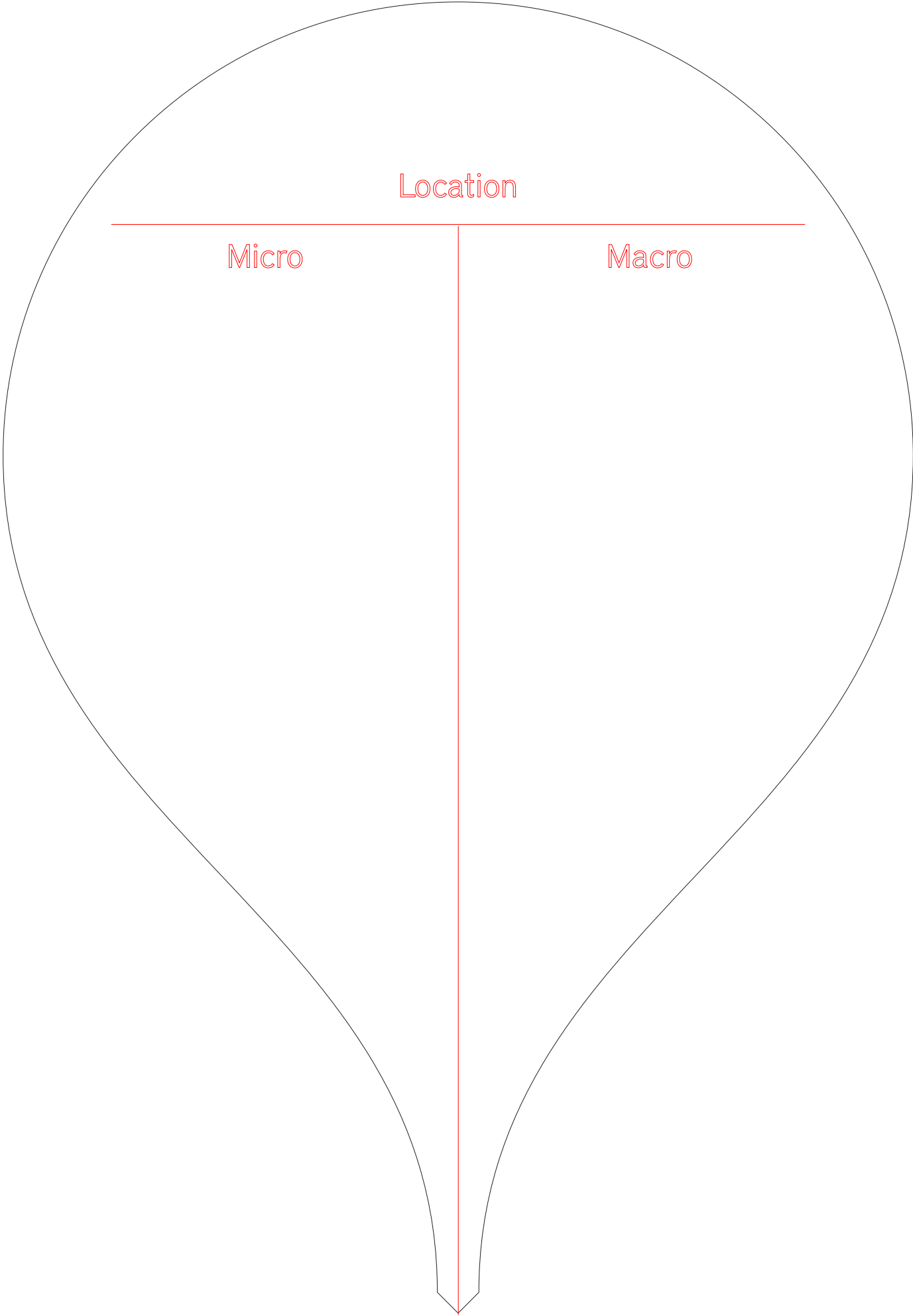


CHANGING THE BOUNDARY PLACES/SPACES/PLACES.





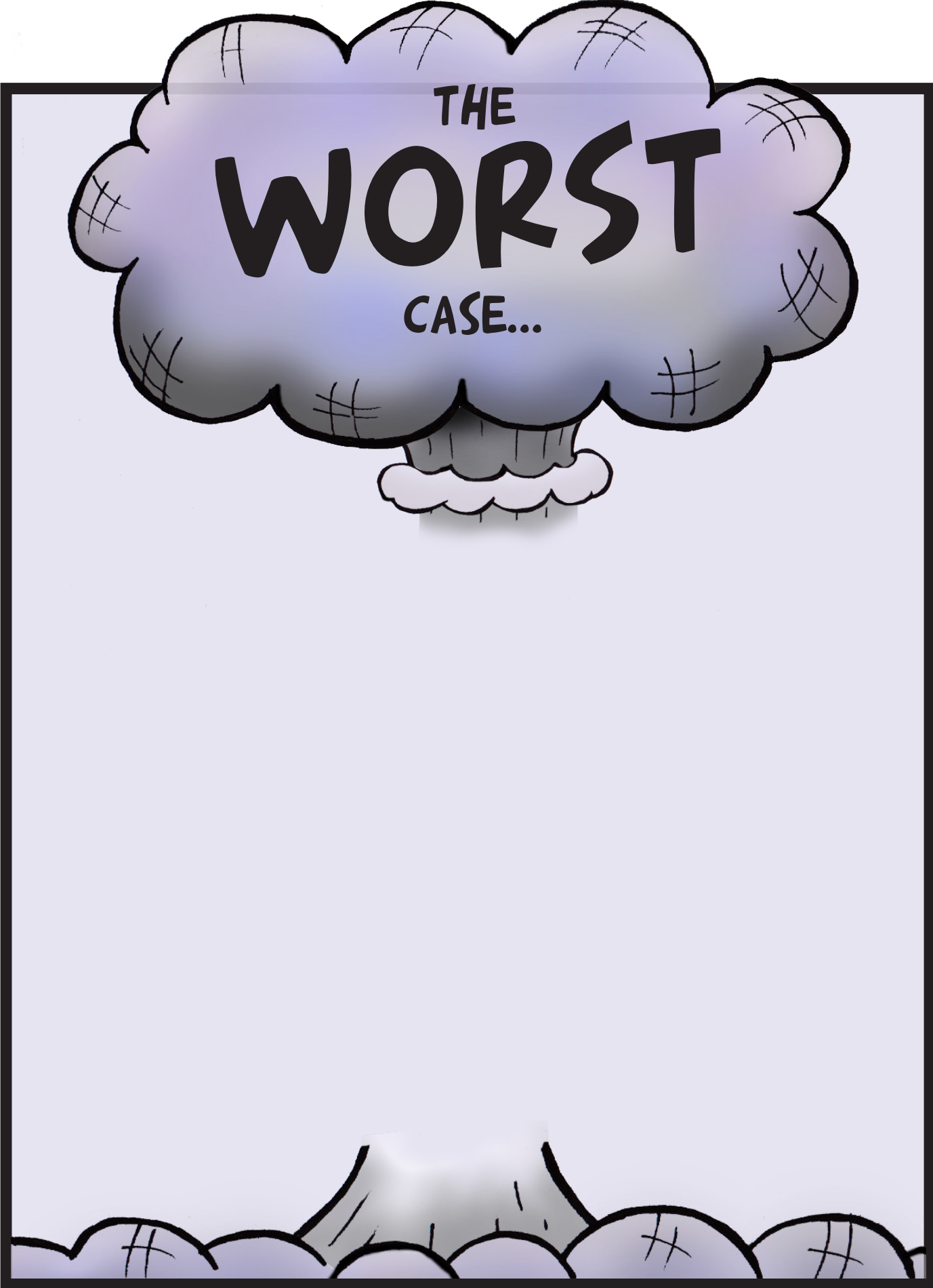
RESEARCH QUESTIONS



Location

Micro

Macro



THE  
**WORST**  
CASE...

Create shared representations.

MIKE BEVIERE - LEE  
(Small World Consumers)  
California Community  
- Sustainable  
Management

MARK  
KIMBLE  
GROWTH  
STRATEGY

MARKETING &  
CONSUMER BEHAVIOUR

CATHERINE  
(LAW) LEGAL ASPECT  
OF DIGITAL TECH.

NEMINDE (2)  
ESRC/EPSEC FUNDING  
"NEW ECONOMIC MODELS  
THE DIGITAL ECONOMY"  
(IS IT STILL GOING?)



# FUNDERS

Technology Strategy Board

How Do We Respond To The EBRC Call - "Design The Future"?

EXTERNAL PARTNERS / COLLABORATIONS / BEHAVIOURAL SCIENCES IN THE AM SPACE (OR CAN WE?)

INTERNATIONAL PERSPECTIVE / LANDSCAPE WHO? WHAT? WHERE? HOW MUCH OVER INTEREST?

NHS GRIN Gastrointestinal Research in the North

NHS Application?

# THE UNIVERSITY

INTERDISCIPLINARITY

FP5-EC/ Change of Course Link - Learning Sites Learning

CREATIVE MACHINES LABS CHEMICAL - HAD LIPSON SYNERGIES / PROTOTYPE

Technology cost trade-off?

AM WILL NOT BE AS DISRUPTIVE AS MEDIA FRENZY SUGGESTS.

How do we re-define authenticity? (a nurse's answer)

How to develop MULTI-MATERIAL A.M. FOR LANCE(S) SOME MAKING?

MARTIN SPRING OPERATIONAL SUPPORT CHANGING "REGENERATION" (AND)

HOW DOES ADDITIVE MANUF. CHANGE STRUCTURE, LOCATION AND GOVERNANCE OF INTER-ORGANISATION NETWORKS?

ROGER WHITHAM DESIGN + DIGITAL TOOLS

NICK DUNN VISUALISATION / DESIGN

JULIA GILLEN DIGITAL LITERACIES

How do people learn from one another, including online, to engage in additive manufacturing practices?

How do we DESIGN / FABRICATE FOR MATERIAL EFFICIENCY / DIMENSIONAL / FUNCTIONALITY / MATERIAL / PANEL / PROPERTIES

Bio-implant manufacture modelling Coatings

A. Pinks, I.M. Soc Lecturer in Engineering

MANDY DIXON Hb Links University to NPS

MEMBERA PROCESS TECHNOLOGY INNOVATION PARADIGM

How do we BETTER INTEGRATE MATERIAL PROPERTIES / CAPABILITIES IN THE DESIGN PROCESS? -> PROSTHESIS / TOOLS

CAN AM PARTS RIVAL CONVENTIONALLY MANUFACTURED PARTS?

What are the implications for these populations that live in disadvantaged areas?

3D printing is disruptive but not only to manufacturing, it's also disrupt devices, it's also disrupt devices, it's also disrupt devices...

IMAGINATION LANCASTER DESIGN-LED RESEARCH LAB: PEOPLE, PRODUCT, PLACES, INTERACTION

LITERACY RESEARCH CENTRE Everyday - & professional - ways of using writing & reading to accomplish things

LUMS (MANAGEMENT SCIENCE) MANAGEMENT SCIENCE INFORMATION SYSTEMS, DIGITISATION, "DARK SIDE"

SLM SLS FDM 3D PRINTING

SYNTHETIC BIOLOGY

LANCASTER HEALTH HUB - NHS Labs - Research / Innovation

Connection between Health Hub and EPDUs to provide clinicians with understanding of AM and how it might benefit them

How does digitalisation of the manufacturing process affect? 1) Work Practices 2) Change Mgmt 3) Social Implications

How are different industries going to be affected differently?

How can we design physical tools to aid design for fabrication?

How can we design tools that my digital tools can use to design fabricate for fabrication?

CHRIS ALLEN MD-ETD

SUSDRAM: ENGINEERING DESIGN ACADEMY

What stage are we at? (What is the next AM/3D technology?)

PAUL COULSON Physical / Digital Design

How to bridge gap between 'making' and products

How crucial is Scalability?

2kW Laser + Laser Depositor (multi-phase rapid manufacturing, large scale, laser resolution)

Biomedicine - Cancer, Brain Ageing Disease transmission

Diabetes engineer - cross project

MANFRED LAU SQUASH, NHS, legal liaison

How do we make easy-to-use tools for 3D printing / laser cutting?

Strength of 3D objects -> Combine engines, computing, design

TOM ABRAM PROJECT ENGINEER & RESEARCHER

JASON ALEXANDER SCC Human Computer Interaction RESEARCH

INTERACTIVE SYSTEMS LAB (ISCC) / HUMAN FACTORS - HCI - HUMAN FACTORS - INTERACTIVE FABRICATION - DATA, PROTOTYPES - TOOLS FOR FABRICATION

MixTab a mixed-reality environment for digital fabrication

Reform of additive & subtractive methods for interactive fab

LANCASTER PRODUCT DEVELOPMENT UNIT by Academics, Engineers, Graduate Students, Alumni, Post-MSc, Business Development, Revenue Stream Practices

Social Works (road) Magic (swing arms) Net fab Invention Meshlab Sculptress Mudbox

KAREN WRIGHT Lecturer in Biomedicine External relations / R&D

Health x Medicine Microbiology x Parasitology

ROGER PICKUP Biomedicine microbiology

Interested in useful AM research i.e. medical applications, disabled aids, addressing developing countries issues etc

CHRISTOPHER WHEELER SCC Human Computer Interaction

ALAN RENFIE - (Senior Lecturer in Manufacturing / Materials)

Make a video about additive manufacturing at Lancaster & how we can liaise to develop new projects / assist SMEs etc.

3D printing for organ production eg small or large bowel, heart, liver etc How likely?

ANDY BAKER MANUFACTURING -

ETHICS & RESPONSIBILITY -> MANUFACTURE DEFECTS? -> SAFETY? -> IP?

MARKETING / CONSUMER BEHAVIOUR

NEOMAN ECONOMIST

MIKE BEGGS - LEE (Small Scale Consumer)

CHEMISTRY Process Science

CATHERINE EASTON (LAW) LEGAL ASPECTS OF DIGITAL TECH.

IDEAS FOR IMPACT USING MATHEMATICS UNDERSTAND HIGH IMPACT CURRENT RESEARCH.

# -RESERVE BENCH-

PROSELYTIZING NORTH  
(DOMESTIC)  
GENERAL  
ELECTION  
CANVAS  
CALLING PRODUCTION COSTS  
DATA AVAILABILITY  
PRO-AMATEUR PRODUCTION  
IMPACT NOT SPRAWL  
Increase in code quality  
Services (offshore)  
Platform proliferation  
DISTRIBUTED EDITING TOOLS (PRODUCTION)  
UGC  
How can we represent our vast archive help people find content they want

Ideas from anywhere  
Media (cloud)  
Production  
Keeping all aspects of program  
Lots of content being created - how do we discover valuable content?  
Can archive be used to stimulate creative process - how  
Backstage openness across all BBC  
Accessibility continues  
Personalized Programs  
Multiple Platforms  
Focusing and Contracting  
Impact focus  
Find new talent  
No go areas for BBC  
Creating content on the make, what tools do we need  
BBC Social Network  
Special targeted content

Production  
Scheduling  
RAW MATERIAL DELETION  
CONTENT  
DENY  
LOW ENERGY SURVIVAL  
TEACHING DUE TO TECHNICAL COSTS  
NO IP DISTRIBUTION  
RADIO ONE  
More 'Short Form'  
Live events - participatory  
Experience is King  
Social (online) TV  
Virtual Offices  
Outsource  
Future  
Less Money  
BBC Smaller  
No license fee?  
Death of the supplied content control

Society, Technology and Culture

Learnback vs Learnforward  
Schedule vs On Demand  
Shift to appliances  
Economics of Computing & Devices  
Rise of the Laptop  
Computer Market Segments  
0-2 years  
Society, Technology & Culture  
BIG DATA  
Challenges of data management  
Open Data  
IPTV  
Emerging user interfaces, a user-centric design  
Local media  
User Experience  
Battery Life  
Virtuality  
Security of data/Computer  
Smartphones  
CONNECTED EXPERIENCE  
HD maintenance  
Digital Divide  
Generations Dividing but Co-existing  
Hyper-local  
Ultra local  
Influences of China/India  
Nomadic Media  
Eco-logy of INFORMATION  
Using content to create  
No (or) consumers  
Production of Startups  
Digital Divide  
Task not the Tool  
Place Space  
GREEN APPROPRIATES  
ENERGY NEED INCREASE

OLYMPICS (LARGE SCALE OF TECH)  
Personal Data Management  
Mobile Data +  
Home Working  
Social Franchising  
Engagement  
Cause Action Automatic Transaction  
Hubs  
Emerging Markets  
Continuing The Cloud  
Return of Baby Boomers  
Personalized  
Anatomical Navigation  
Biometric Biometric  
Virtuality  
Popularity  
Digital Divide  
Crisis  
Mean + Sex News Impact  
Bionics  
Talent Hobbies To Change  
Place Space  
GREEN APPROPRIATES  
ENERGY NEED INCREASE

ENHANCED HUMANS  
Test based devices  
Aging Population  
DIGITAL DIVIDE  
Surround Video - experiential media  
How to we get people to use BBC content with increasing competition  
Visualisation  
Disruptive computers as separate devices  
PERSONALISTS 1.0  
CONSCIOUSNESS  
OPEN INNOVATION  
Collective Intelligence to solve problems  
Inputs everything  
MASS CREATION  
INNOVATION  
Green Broadcasting - production & product sales  
Reducing production budgets - not can we do more with less  
Learning barriers to technology  
Vast amounts of 'free' data as an open  
High Energy Costs  
Old people are getting younger  
Tapeless production as default  
Screens everywhere - software, delivery, etc  
Self-governing & banality (David)

More become Design - There etc  
Live Participatory Energy  
Game vs Reality (Serious?)  
More on Terms Participation  
New Patient Models  
Partnerships - BBC  
Flexible Disciplinarity  
IMPACT!  
Interoperability  
2nd Screen Activities  
Mobile +  
Connection between Large + Small Industry  
User Centered  
Sustainable Design  
Power of Collaboration  
Brokering - platforms - standards  
Standards (HTML 5.0)  
Income more important  
Open Innov  
Open Source

Funding Cuts  
OUTREACH BECOMES RESEARCH  
LOWER SILO WALLS  
GROWTH CONSTRAINED  
MORE NOODLE BARS  
LESS MONEY  
INCOME GENERATION FROM RESEARCH  
LESS RESEARCH COUNCIL FUNDING  
REINVENT Learning - Virtual Uni.\*

Radical change within  
POST DISRUPTIVE RESEARCH  
PROBLEMS AND DISCIPLINES  
INCREASED IMPACT ON SOCIETY  
Growth on Networks for information in info age  
Internet Protocol Distribution  
Research with funding fewer better centres of excellence  
IT just works...  
Big IT Business Research  
Inclusion in Regions  
Functional 'Virtual' Spaces  
Digital Media Eco-system Collaborative work-based models  
Sustainable R&D comments  
Research with funding fewer better centres of excellence  
IT just works...  
Big IT Business Research  
Inclusion in Regions  
Functional 'Virtual' Spaces

1

## Sharing

Using knowledge and experience that is common to participants.

The intellectual and social basis for collaborative working.

2

## Exploration

Enabling participants to work together to explore new questions or ideas.

Divergent; creating new concepts, ideas and perspectives unique to the participant group.

3

## Formation

Enabling participants to filter concepts, create consensus and compare discoveries.

Convergent; creating explicit, standalone outcomes that can be used beyond the engagement itself.

4

## Action

Ensuring ongoing value from the work done by participants.

Building in longevity and impact to ensure all participants benefit from their contributions.





Advice







Handwritten notes on a flipchart:

- revised to
- instability
- scale of options
- readiness
- Scale
- Risk
- Safe





# PROACTIVE

MORE RISK

LESS RISK

# REACTIVE

A collection of approximately 25 hand-drawn cards and notes, each detailing a specific creative leap. The cards are organized into two main vertical columns: 'PROACTIVE' on the left and 'REACTIVE' on the right, separated by a dashed horizontal line. Each card typically includes a title, a brief description of the leap, and a list of key factors or outcomes. The cards are held in place by black binder rings.

- PROACTIVE Column (Left):**
  - Creative leaps that were self-directed:**
    - See it as a project:** Not having a plan, lack of confidence to put it through.
    - Symmetry/Blog (Instagram Acco):** 'Gone viral' online and went back to work with the project. Expectations of sticking to what you know (comfort & safety in that).
    - From small scale to large scale needs:** Freedom to work on many labels, numbers, audience development, data sorting.
    - Teatours (not started by me but cont. by me):** Never been done before at the V&A, the photographs gallery.
    - Feeling that your idea should be something 'new' + original for it to be successful:** Limited budget, resources, time, space, location, etc.
  - Creative leaps that involved appropriating (stealing) something:**
    - Walking, shopping, reading, watching fully, adverts on the tube:** Incorporated & surprised myself, justifying unrelated things.
    - Thinking about a 'big picture' to be performed:** Pages to design, ideas, layout, content, editing, etc.
    - Using the 'big picture' to think about a 'small picture':** Starting with a 'big' idea, then a 'small' idea.
    - Using the 'big picture' to think about a 'small picture' (continued):** I didn't know I had many skills and wasn't 'good' at them.
- REACTIVE Column (Right):**
  - Creative leaps that were self-directed:**
    - 6 DEGREES OF SEPARATION:** A creative leap for students to make creative links between two objects.
    - EE ABOUT WITH KIDN BACON:** Demands for more resources for students.
    - I WANTED A TIKI KAREOKE PARTY!** No one wanted to go, but it was successful.
    - Adapting design (up-up K) to make another character:** Initially had a character, but it didn't work.
  - Creative leaps that involved appropriating (stealing) something:**
    - Using the 'big picture' to think about a 'small picture':** Using the 'big picture' to think about a 'small picture'.
    - Using the 'big picture' to think about a 'small picture' (continued):** Using the 'big picture' to think about a 'small picture'.
    - Using the 'big picture' to think about a 'small picture' (continued):** Using the 'big picture' to think about a 'small picture'.
    - Using the 'big picture' to think about a 'small picture' (continued):** Using the 'big picture' to think about a 'small picture'.

1

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### Workshop 3: Refine



Refine

After the initial brainstorming session, it's time to refine your ideas. This workshop focuses on taking your most promising concepts and developing them into more detailed and actionable plans. You'll be encouraged to think critically about the feasibility and impact of your ideas, and to seek feedback from your peers. This is a crucial step in the creative process, as it allows you to identify potential weaknesses and make necessary adjustments before moving forward. By the end of this workshop, you should have a clearer understanding of how to refine your ideas and a set of more polished and refined concepts to present.



What do you want  
people to do?

---

- Reflect / Converse
- Adopt new behaviours
- Take on new projects

Put ideas from the workshop back  
into the lives of participants.



THE UNIVERSITY

1988-2011  
Chamber of  
Lack -  
assessing  
learning

UK 60  
SOCIETY  
OF  
FACULTY

UK 60  
SOCIETY  
OF  
FACULTY

How do we  
know that we  
are learning?  
What is the  
evidence of  
learning?

LITERACY  
RESEARCH  
CENTRE  
Research, Learning & Policy  
in writing and reading in  
academic life

Research in Learning, Reading  
& Writing

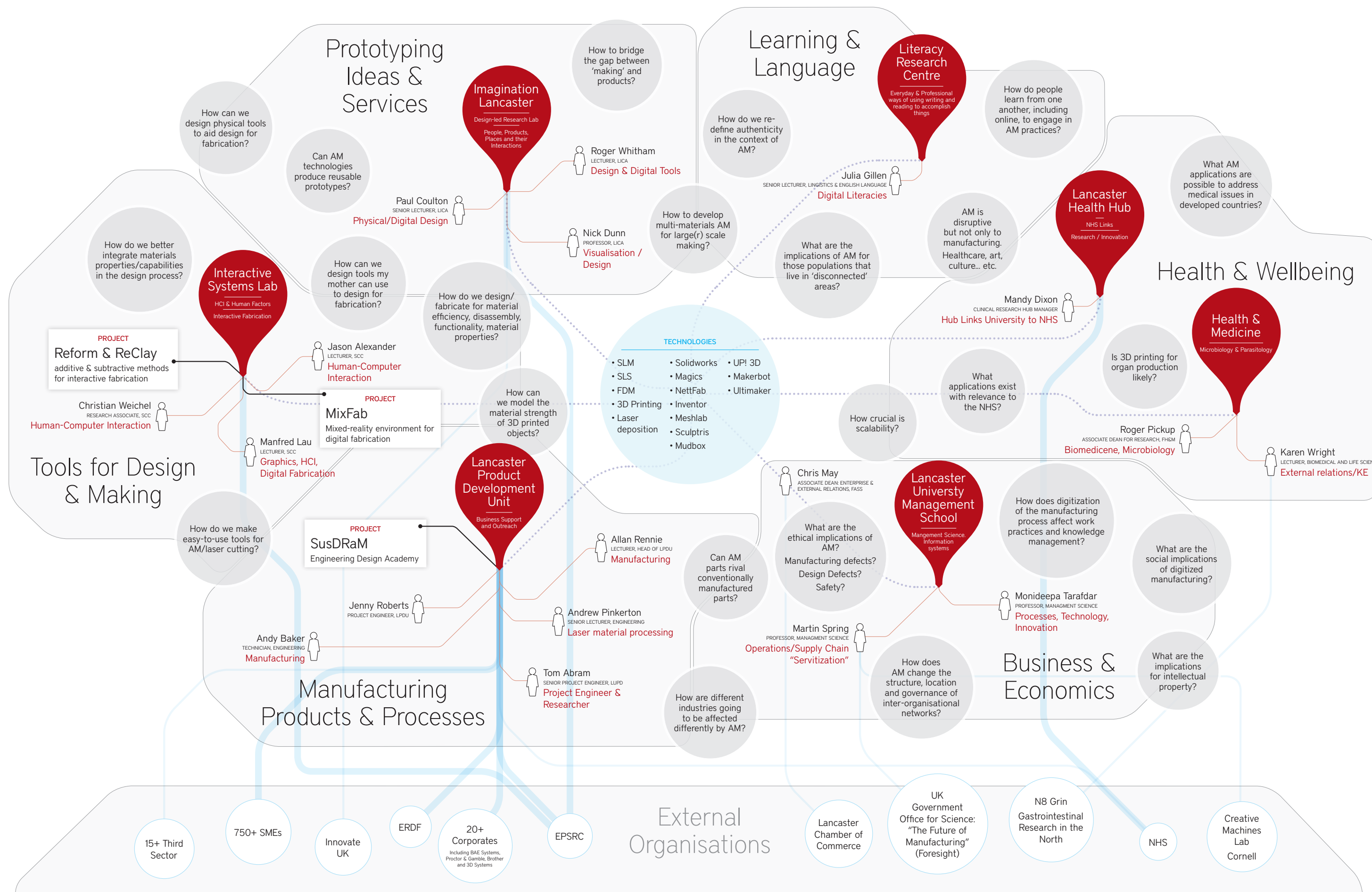
UK 60  
SOCIETY  
OF  
FACULTY

UK 60  
SOCIETY  
OF  
FACULTY

UK 60  
SOCIETY  
OF  
FACULTY

# Additive Manufacturing at Lancaster University

## CAPABILITIES AND QUESTIONS





  
new ideas  
A Meeting of Minds

LEAD

The Creative Exchange

Postgraduate consistency with AHEs

EITB - How can I create a HE community with students?

What could we do differently in terms of delivery?

Have we got a clear strategy for the future of LEAD & Does everyone know it?

Where does LEAD fit into IEEB's Strategy - do we have a strategy?

Do we practice what we preach?

Do we lose part of the programme, when Sue leaves?

How do we best showcase the intangible benefits better?

As technology has progressed since LEAD began do we now need to implement new technologies?

How do we put things in context?

Factors on student LEAD project

What does your plan to your plan?

Is part of your job going to your future business?

Can you do more than you think you can?

What are the challenges?

Who is doing this within the department?

How do you share expertise and knowledge about the process?

How can we communicate better internally?

Should we be sharing more? - Commercialising

What effect will losing Sue have?

Who are the 'best practice' people we can draw from?

Who within the organisation are best placed to manage expectations?

And how much responsibility should fall to students?

What responsibility does HE have for helping/supporting students to manage?

How do you find a balance between expectations of different groups/people?

Are we jeopardising the quality of the programme by sharing?

Do people have to physically co-located?

Should the actual needs of the project be reflected in the strategy?

What were the jobs?

How does the environment influence the firm? HE takes -ve or +ve?

EITB - How can I create a HE community with students?

Do funding restrictions allow for experimentation?

How do you tell if you have the right people involved?

How do we make it sustainable?

Do PCs have the skills & knowledge?

How do we best manage the PC's?

Strategically which type of client should we target?

Postgraduate consistency with AHEs

What is the best way to maintain links with client?

How to bring in the client?

Which areas for improving client/industry relations?

Is there a 'best way' to bring people together on projects?

Are the facilities provided for real business or learning?

Practice or reality?

How do we get the best out of the students?

Are enthusiastic academics 'better' or just available?

How do we get the best out of the students?

How do we get the best out of the students?

How to make module content more relevant?

Do we have the right skills & knowledge?

Which areas for improving client/industry relations?

How to bring in the client?

How do you tell if you have the right people involved?

How do we make it sustainable?

How do we get the best out of the students?

Practice or reality?

How do we get the best out of the students?

Are enthusiastic academics 'better' or just available?

How do we get the best out of the students?

How do we get the best out of the students?

# ROUTES TO IMPACT



**RCUK ROUTES TO IMPACT**  
Identify destinations or outcomes for the research activity below:

**A**  
Informing the design of new (+ existing) digital collaborative tools.

**B**  
Generating R&D investment in new digital collaborative tools.

**C**  
Enhancing tools + methods for knowledge work in companies

**CORE RESEARCH ACTIVITY**  
Identify a core research activity and describe it in a sentence that is easy for others to understand:

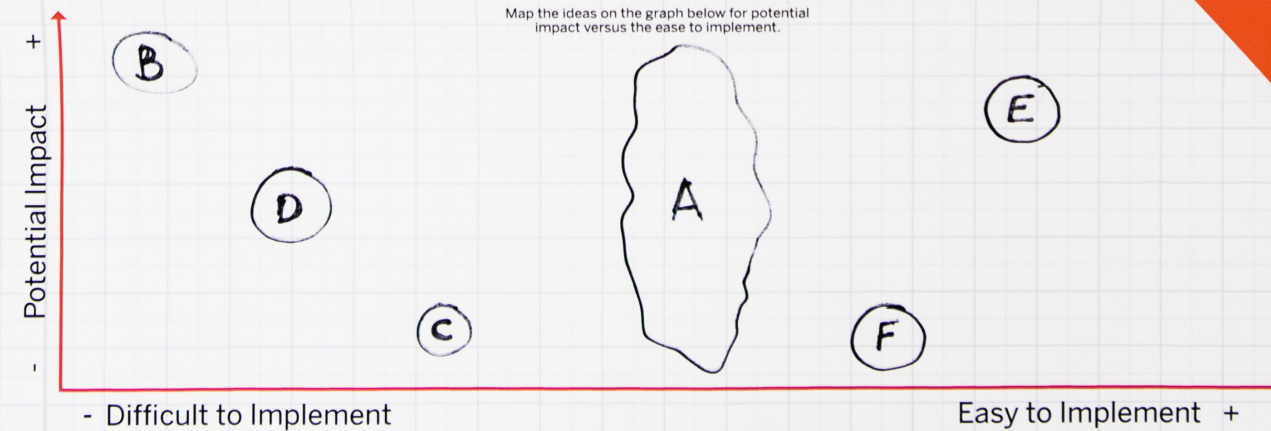
Explaining the relationship between technologies, tools and design in how people think, collaborate + create.

**D**  
Research organisations changing and developing their working practices.  
eg. Microsoft Research.

**E**  
Educational tech. companies looking for novel approaches + technologies, e.g. Promethian Tech.

**F**  
Design agencies looking for new creative processes + approaches.  
eg. The Guild.

**EXTERNAL INTEREST**  
What could be the external interest for your core research activity?



Make new behaviours rewarding.



**iDEAS**  
at Daresbury

Beyond  
Networking  
Contact Classifier

Use the dots overleaf to...  
Mark contacts that  
can help with new ideas

**Finding**

Mark contacts that can  
help refine and improve ideas

**Testing**

Mark contacts that can  
help bring ideas to market

**Exploiting**

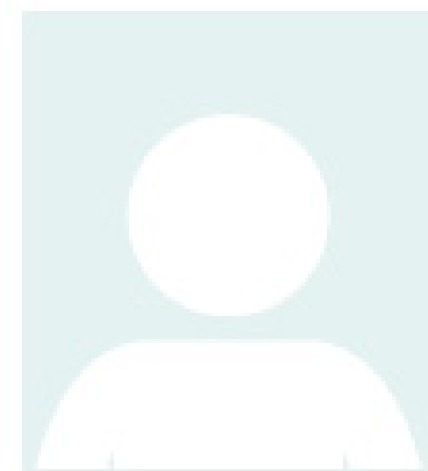
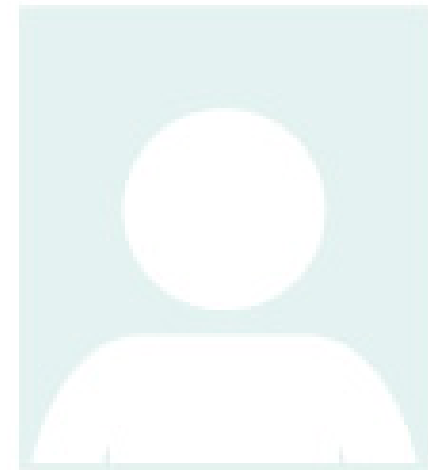
1  
You need  
to get out  
more!

2  
Push out of  
your comfort  
zone

3  
Now you're  
getting the  
hang of it!

4  
What else  
is out  
there?

5  
Master of  
creative  
inspiration!



→  
Attach inspiration along the poster.

Match future actions with  
clear value, responsibility and  
accountability.



③ What do you personally and professionally want to get from involvement in the support program?

Handwritten notes on pink sticky notes on a blackboard.





Relevance to BBC  
 1. 2nd screen experience  
 description via mobile  
 interaction with big screen at public

Relevance to LU  
 Big Screen Interaction  
 Research



Challenge

"public display"  
 - easy pairing for 5k+ users  
 - as individuals  
 - as groups  
 - as one group

Skills Required

- scenario building  
 - technology (mobile)  
 - business models

- get in touch  
 with BBC **SAM**  
 big screen  
 (Sarah Griffith)

**Gordon** to  
 decide in next  
 3 weeks.

- peer media?

High Wire Project

- ensure appropriate  
 technology in media  
 city.

- example applications +  
 business models.

- lead scenario buddy  
 - contact with events org.  
 (BBC + external)  
 - health + safety issues  
 advice  
 - access to content content  
 - explore IP issues

BBC Input

• Participation in PD-NET Industrial  
 Steering Group.

• Multi-partner, funded, blue-sky on public  
 open display networks.

• Consider future research bid.

Other

**Sara** to  
 find name  
 for participant?

Relevance to BBC  
 bringing the gates down at  
 Broadcasting House  
 Centre

Relevance to LU  
 New kinds of content experience



Challenge

What is the challenge?

How can BBC exploit the creative  
 + innovative potential of. Small +  
 Micro companies (or freelance).

Relevance to BBC - Tech Transfer.

~~Partnership~~ - Tapless production  
 - lowering barriers to entry.  
 - getting others to take  
 R+D → DEVELOPMENT.

Relevance to LU

- Broker (Trusted)  
 - Expert in Novel knowledge  
 Exchange.  
 - Funding  
 in place NOW



Challenge

What is the challenge?

Develop A SYSTEM THAT CAN SUPPORT A  
 MASSIVELY MULTIUSER ONLINE GAME/EVENT  
 WITH  $2 \times 10^7$  SIMULTANEOUS USERS.



Relevance to BBC

• MASS PARTICIPATION INTERACTIVE CONTENT - BRING  
 ONLINE AUDIENCES TO LEVEL OF TV.  
 (INTERACTIVE)  
 • NEW GENRES

Relevance to LU

• RESEARCH INTO MASSIVE DATA COLLECTION + ASSIMILATION  
 • WIDER PROBLEM OF SENSOR DATA RECOVERY IN WIDE  
 AREAS  
 • INVERTING THE CONTENT DISTRIBUTION NETWORK



**GUIDANCE NOTES**

Proposed by

CORE PARTNERS	SUPPORTING PARTNERS

Core partners will take the lead on developing the project.

Supporting partners (optional) may act in an advisory capacity or offer specific expertise in a particular area.

Provisional Title

Please include a draft title for your project idea. This does not need to be the final title that your project takes.

Other People & Expertise Needed

Academic, Commercial, Community & Technical

List the people and expertises that will be needed in by the project in addition to yourselves.

This must include both academic and commercial/ community involvement.

These do not have to be named individuals at this stage.

For example if expertise in a particular academic specialism is required but this person has not yet been identified, indicate this as 'expert in X'.

Topic, Opportunities, Challenges

This should be a brief description of the specific areas within public service innovation and democracy that this project is examining.

What opportunities and challenges will it address?  
What current need will it fulfil or explore?

Approach

Please explain what format your project will take and an outline of projected activities. This may include one of the following:

- Pilot investigation
- Survey
- Prototype development
- Product testing

Include the outcomes that you expect to have at the end of the project, e.g. a report, visualisation, working prototype etc.

Desired Outcome

Resources

THINGS YOU BRING	THINGS YOU NEED

List the significant resources that will be necessary to undertake this project.

'Things you need' for example include researchers provided by CX, resources for prototypes and testing and a small amount of funds from the CX Fund for release of commercial staff to undertake research and in-kind support.

'Things you bring' are resources that partners are willing to provide, this may include items such as time to undertake research or develop outputs, or space to do the work.



[impact.lancaster.ac.uk/tools](https://impact.lancaster.ac.uk/tools)



# Collaboration & Impact Toolbox

Tools and resources to help you communicate, collaborate and connect your research with others.  
Part of the **IDEAS for Impact** project.

### Hexagon Cards



Connectable cards for mapping problems, generating ideas or modelling shapes.

### Giant Timeline




A table-sized timeline for planning projects and activities.

### What's Your Motivation



A mini comic strip for revealing people's motivations at the start of a project.

### Meeting Action Points




A fun tool for creating a visualisation of progress between meetings.

### New Tools

This is an ongoing project. Leave your email and get a notification when a new tool is added.

Email

You can also follow us on twitter:

 [Follow @ideas\\_team](#)