

NewMind Plus Sandpit

Professor Chris Taylor
University of Manchester

Day 1 Programme

1500 - 1530	Registration
1530 - 1545	Welcome & Introduction - Prof. Chris Taylor (PI, NewMind Network) <i>An overview of the NewMind Network, EPSRC Networks Plus funding, and the aims of the workshop</i>
1545 - 1715	Developing Project Ideas (1) <i>Group Introductions</i> 15 mins <i>Brainstorming Project Ideas</i> 30 mins <i>Developing the Project Pitch</i> 45 mins
1715 - 1730	Refreshment Break
1730 - 1900	Developing Project Ideas (2) <i>Group Introductions</i> 15 mins <i>Brainstorming Project Ideas</i> 30 mins <i>Developing the Project Pitch</i> 45 mins
1900 - 2100	Evening Dinner

NewMind Network

Technology to transform mental health care

- Funded by EPSRC
- Partnership with **MindTech**
 - NIHR Health Technology Co-operative
- NewMind Objectives
 - build EPS community engaged with mental health
 - help EPS researchers understand service need
 - envision technology intervention scenarios
 - identify underpinning EPS research challenges
 - develop new research collaborations

NewMind Research Roadmap

- Health Outcomes Framework
 - What are interventions trying to achieve?
- EPS Research Challenges
 - What research is needed to realise the potential?
- Ethical and Responsible Innovation Framework
 - What principles should researchers respect?

Health Outcomes Framework

- Working with scenarios
 - Imaginative examples of interventions
 - Science fiction allowed!
 - Analysis – what are they trying to achieve?



Health Outcomes Framework

- Taking control
 - Empowering self-management
 - Enabling collaborative care
 - Developing self-awareness of triggers
 - Managing medication effectively
- Smarter Intervention
 - Early diagnosis and stratification
 - Providing early warning of deterioration
 - Altering mood, deploying coping strategies
 - Managing sensory experience

Health Outcomes Framework

- Living better
 - Living independently
 - Reducing isolation
 - Supporting challenging activities
 - Supporting social interaction

EPS Research Challenges

- Sensing systems
 - Continuous picture of health, activity and experience
- Information management
 - Dealing with the flood of data, integrating with health record
- Data analytics
 - Making sense of data – patterns and prediction
- Human-centric systems
 - Making systems useable, unobtrusive, personalised

Ethics and Responsible Innovation

- Privacy and confidentiality
- Co-development
- Choice and personalisation
- Empowerment and control
- Impact on relationships
- Fair access and support

NewMind Plus

- Awarded February 2016
- Runs June 2016 – May 2019
- Research funding of £360k
 - must be EPS research
 - up to 12 exploratory projects @ £15k
 - up to four further feasibility projects @ £45k
- Project proposals developed through network activities
 - must be initiated at a sandpit event

Developing & Selecting Proposals

- Sandpit events (5, next in July)
 - broad participation
 - co-producing ideas
 - building partnerships
 - creating proto-proposals
- Proposal development workshops (as required)
 - developing proposals
 - involving service users
- Dragons' Den (Next May 2nd)
 - selecting proposals to fund

Exploratory Projects

- Examples
 - literature surveys
 - user centred design
 - analyses of existing data
 - pilot data collection
 - software prototyping
- Must address an EPS Research Challenge
- Must align with NewMind Research Roadmap
- Must have clearly defined deliverables

This Event

- Day 1: generating research ideas (x2)
 - brainstorming
 - shortlisting
 - initial development
- Day 2: developing (full) proposals
 - presentation and sign-up
 - refining objectives
 - exploring EPS research challenges
 - agreeing next steps (eg exploratory project proposal)

Process for this Afternoon

- Groups based on clustering of initial ideas
- Group introductions (15 min)
- Brainstorming research ideas (30 min)
 - co-developing ideas within the group
 - selecting 1 or 2 ideas (voting if necessary)
- Developing project pitches (45 min)
 - adding more detail
 - completing template posters

Selecting Breakout Groups

- Topics identified by you via Well Sorted
 - 8 colour-coded clusters
- Select one group per session (at registration desk)

Session 1	Session 2
Red	Green
Silver	Purple
Yellow	Orange
Pink	Blue

Process for Tomorrow

- One minute pitches
- Browsing and sign-up
 - explore other groups' proposals
 - sign-up to continuing involvement
 - choose two to work on
- Developing the proposals (two sessions)
 - refine the mental health objectives
 - explore the EPS challenges
 - outline the work packages in the full proposal
 - identify ethical and responsible development issues
 - what could an exploratory project address?
 - what could a follow-on feasibility study address?

Day 2 Programme

0830 - 0900

Registration & Poster Browsing

0900 - 0915

One Minute Proposal Presentations
Each group provides brief overviews of their proposals

0915 - 0935

Proposal Sign-up
Participants browse proposals and commit to those they wish to support

0935 - 0945

Introduction to Developing & Submitting the Proposal - Dan Morley

0945 - 1115

Developing Project Proposals (1)

1115 - 1130

Refreshment Break

1130 - 1300

Developing Project Proposals (2)

1300 - 1330

Plenary Discussion & Next Steps - Dan Morley

Lunch & Close

Developing the Proposals

Session 1: 0945 - 1115	Session 2: 1130 - 1300
1 Develop interactive toys for children with mood disorders	6 Promoting reminiscence for improved QoL in Dementia
2 Personalised support at point of need	7 Trip Advisor for Apps for pilot testing (user facing)
3 Meaning in variation (mood & affective)	8 Sensing how PAM sleeps
4 Confidant (young people)	9 Dynamic Wellbeing Visualisation
5 Taking back control in isolated rural areas & elsewhere	10 Non compliance in depression: on the way to recovery.

Developing the Proposals

- Refine the mental health objectives
- Explore the EPS challenges
- Outline the work packages in the full proposal
- Identify ethical and responsible development issues
- Outline a possible exploratory project
- Outline a follow-on feasibility study

Proposal Format

- Title, who is involved etc
- Full proposal
 - Vision, opportunity, need (250 words)
 - EPS challenge (250 words)
- Feasibility funding
 - Need for funding (250 words)
 - Deliverables (250 words)
- Ethical and responsible innovation issues (250 words)

Next Steps

- Collaboration site
 - Capture of workshop outputs
 - Contact details for signed-up colleagues
 - Shared workspace for each proposal
- Proposal development workshops
- Exploratory projects
 - Submission Friday 7th April
 - Informed w/c 17th April
 - Dragons' Den 2nd May

Proposal Format

- Title, who is involved etc
- Full proposal
 - Vision, opportunity, need (250 words)
 - EPS challenge (250 words)
- Feasibility funding
 - Need for funding (250 words)
 - Deliverables (250 words)
- Ethical and responsible innovation issues (250 words)

Dragons' Den

- Dragons
 - EPS investigators (no conflicts of interest)
 - Clinical
 - Health economics
 - Service user / lived experience
 - NHS/Commissioning
- Den
 - 3 project reps
 - 10 minute pitch
 - 50 minutes discussion/probing

Example Projects

- Unlocking the evidence from electronic patient records for smart intervention of mental health disorders – a case study in Alzheimer's Disease'
- Towards a next generation platform for personalised neuro-therapeutic interventions in chronic pain
- Unobtrusive behavioural monitoring via the interactions of daily living
- AdaptivePlanning and raPid LEarning in mental health
- Managing Mental Health in a school environment