

## Workshop Report

### Jacques Carolan | Programme Workshop

#### Workshop Report

One of the key underlying principles of ARIA's solicitation is fair, open and transparent competition, as such we are publishing a summary of the outputs of programme discussions.

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## SECTION 1: Workshop Overview

Programme / Programme Director	Scalable Neural Interfaces / Jacques Carolan
Date	7th and 8th of March 2024
Location	London
Goal	Test programme thesis
Pre reads	<i>A pre-read for the thesis was sent to attendees 1 week prior</i>

### Background

*Neurological and neuropsychiatric disorders are the cause of an overwhelming societal and economic burden. We need a new suite of tools that enable us to interface, at scale, with the human brain. In order to develop these tools a set of three technical areas were designed to underpin the programme for discussion:*

- Development of next-generation precision neurotechnologies (TA1)
- Applying precision neurotechnologies (TA2)
- Patient engagement into advanced neurotechnologies (TA3)

### **The goal of the agenda was to:**

- Bring together experts from different disciplines that may not consider themselves under the neurotechnology umbrella.
- Introduce every participant to one another to encourage collaboration and idea sharing (flash talks)
- Give a range of cutting edge talks in various disciplines across neurotechnology:
  - Clinical focus
  - Device engineering
  - Neuroscience
- Give detailed programmatic feedback.

The target audience were experts across the field of neurotechnology to get valuable insights and feedback at a programmatic and scientific level.

## Key Discussion Points

*Key discussion were the technical areas TA1-3 outlined in the programme thesis.*

*Topics for breakout discussion were as follows:*

- How valuable the goal of high precision is
- What are the important metrics for precision?
- A detailed analysis and rundown of TA2
- What infrastructure could ARIA support?
- How responsible neurotechnology is developed?

## Outcomes

*The workshop achieved its goal by sending out pre-reads and creating breakout groups to discuss each technical area with a broad range of experts across neurotechnology. It was incredibly useful to confirm that the area that the programme will address is in fact ripe and underserved and that the technical areas outlined in the workshop pre-read were in fact valuable and if successful would allow a paradigm shift in the neurotech space. Insights into size, scale and value of projects as well as number of participants, creators and resources were also gained.*

## SECTION 2: Agenda

### Day 1 Agenda | [07.03.2024]

Time	Activity
09:30 - 10:00	Arrivals, Registration & Breakfast
10:00 - 10:05	Welcome
10:05 - 10:45	One Slide Lightning Introductions
10:45 - 11:00	ARIA Introduction
11:00 – 12:00	Programme thesis: Discussion + Reactions
<b>12:00 - 12:10</b>	<b>Coffee Break</b>
12:10 - 13:10	Contributed Talks
<b>13:10 - 14:00</b>	<b>Lunch</b>
14:00 - 15:30	Breakout Session - A
<b>15:30 - 16:00</b>	<b>Coffee Break</b>
16:00 - 16:45	Contributed Talks
16:45 - 17:00	Closing Remarks
<b>17:00 - 18:30</b>	<b>Networking Dinner at Venue</b>
18:30	Day 1 End

## Day 2 Agenda | [08.03.2024]

Time	Activity
08:30 - 09:00	Arrivals, Registration, Icebreaking & Breakfast
09:00 - 09:05	Welcome Recap
09:05 - 09:20	Clinical Talk
09:20 - 10:00	Clinical Panel Discussion <i>How do we make sure our technologies are clinically relevant?</i>
<b>10:00 – 10:30</b>	<b>Coffee Break</b>
10:30 - 12:00	Breakout Sessions - B
<b>12:00 - 13:00</b>	<b>Lunch</b>
13:00 - 13:45	Contributed Talks
13:45 - 14:45	Breakout Session - C
<b>14:45 - 15:15</b>	<b>Coffee Break</b>
15:15 - 15:45	Breakout Reflections
15:45 - 16:00	Closing Remarks
16:00	Day 2 End