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Immunity Passports as Complex Systems: Applying systems approaches to explore needs, risks, and unintended consequences

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COVID-19 immunity certificates as complex systems:

applying systems approaches to explore needs, risks, and unintended consequences

IMMUNE project

RSD10 - 6TH November 2021.







Agenda



What is the IMMUNE project?



Research questions



Methodology



Some outputs of research



Conclusion and future questions



(or **Immunity Passport Service Design**) is a research project run by

Loughborough University and Brunel University London





Funded by the Arts and Humanities Research Council (AHRC) under the **UKRI COVID-19 Rapid Response Call**.

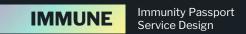


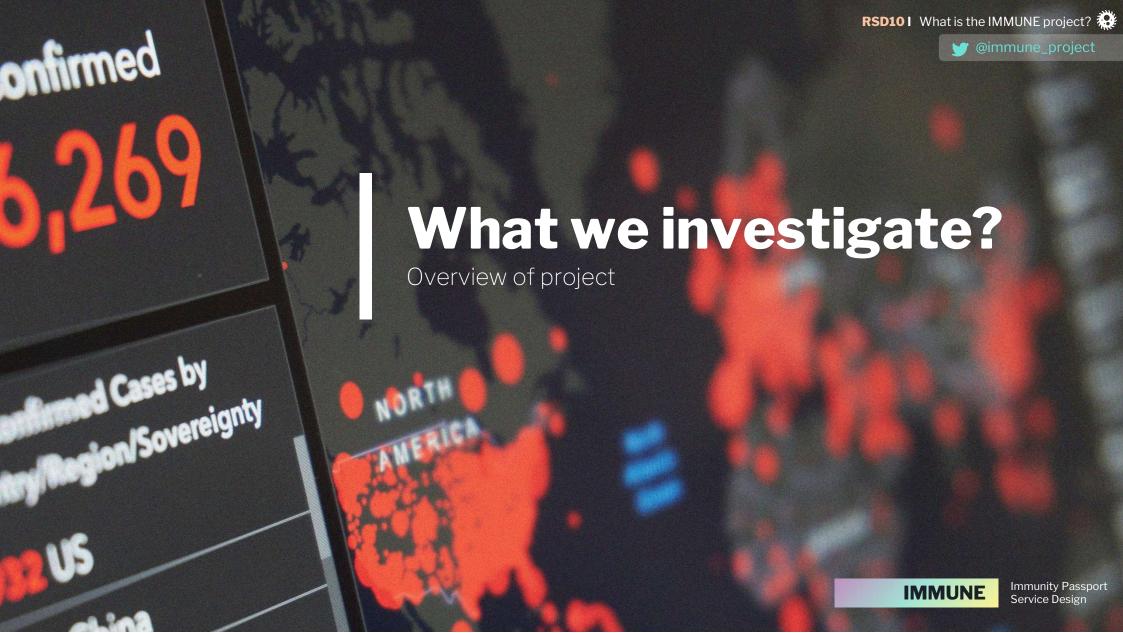


The IMMUNE project Team is a multidisciplinary team of academics and researchers combining knowledge and expertise in **Digital Health**, **Design**, **Human Factors**, **Computer Science** and **Social Sciences**.

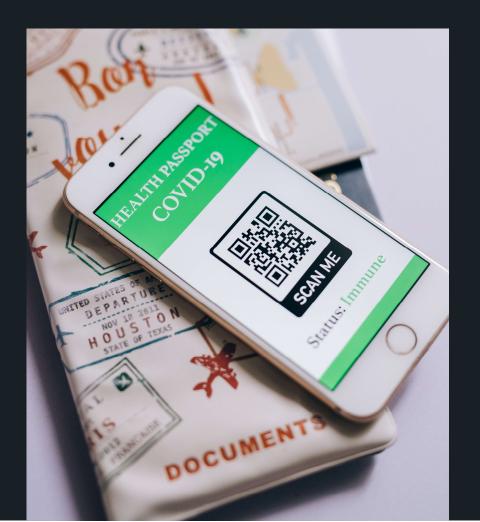
THE TEAM

- Panos Balatsoukas (Loughborough University)
- Isabel Sassoon (Brunel University London)
- Thomas Jun (Loughborough University)
- Cecilia Landa-Avila (Loughborough University)
- Ozlem Colak (Loughborough University)
- Corina Niculaescu (Brunel University London)
- **Tina Harvey** (Loughborough University)





COVID-19 immunity certificates in the UK



A way to proof your **COVID-19 immunity status.**

- By previous infection
- After being fully vaccinated

Strategy to safely **exit lockdowns** and **go back to normality.**





Why the IMMUNE project?

Concerns that were not being heard.

Pressure on service providers without guidance and support.

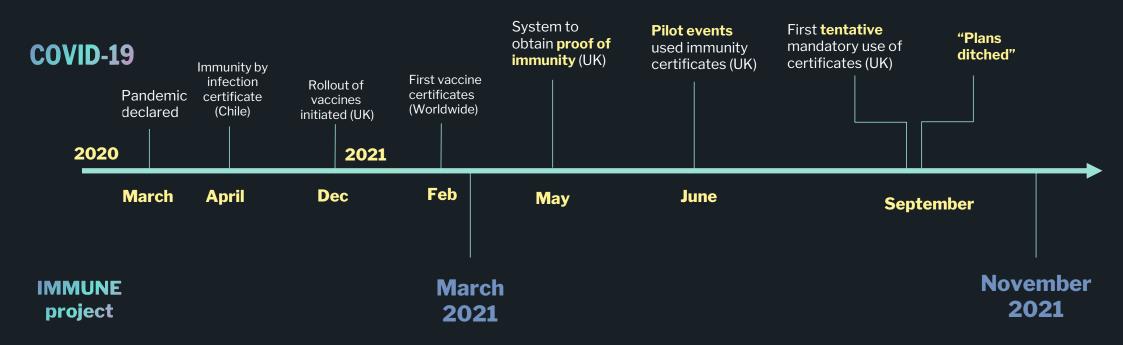
Uncertainty about risk of consequences of these certificates.

DISCLAIMER

The IMMUNE project did not seek to examine whether immunity certificates are good or bad.

Also, the IMMUNE project did not seek to encourage or discourage the use of immunity certificates.

COVID-19 Immunity certificates roadmap



Key questions

Specifically, the IMMUNE project addressed **two questions**:

- What are the key **concerns** about the possible risks and unintended consequences of using immunity passports?
- How to design immunity certificates in a way that **mitigate** any unintended consequences or risks?





Who was involved?

We wanted to engage with service providers, the public, vulnerable groups, experts, academic researchers.







Local businesses



Cultural and Creative Industries



Tourism and travel



Key challenges throughout the research

- Facilitate participatory research with heterogeneous groups
- Integrate **changing data and regulations** to the project
- Trade-offs between **communicating complexity** and **oversimplifying findings.**
- Conducted only online research

Overviews of the methodology

Methodology RESEARCH QUESTION ONE RESEARCH QUESTION TWO **METHODS** Focus group **Focus group Storytelling** to explore 1 Spor[®] lubs Safety tensions **Synthesis** 1 map July 2021 September 2021 **TIMELINE TECHNIQUES** - Visual metaphors. - User journey and storytelling - Guiding auestions - Bespoken reflective templates: consequences matrix. **PARTICIPANTS** - Experts in bioethics and public - Experts in bioethics, - Service providers. - Service providers. - People who are health. public health, virologist. - Attendees (who are - Attendees (18-24 considered clinically - Providers from tourism, events - Providers/organisers. considered clinically vulnerable. vears old). - Attendees. vulnerable). organisers, cultural and sports. - Service users - Carers of people with **Interviews OTHER METHODS** - 534 participants, aged 18 and older, Survey residents of the UK.

Communicate "one size doesn't fit all"

- Integrated Journey maps.
- Video storytelling (by industry sector).
- Blueprints (by industry sector).
- Pei

Tensions

- tension and trade-offs
- the concept of safety

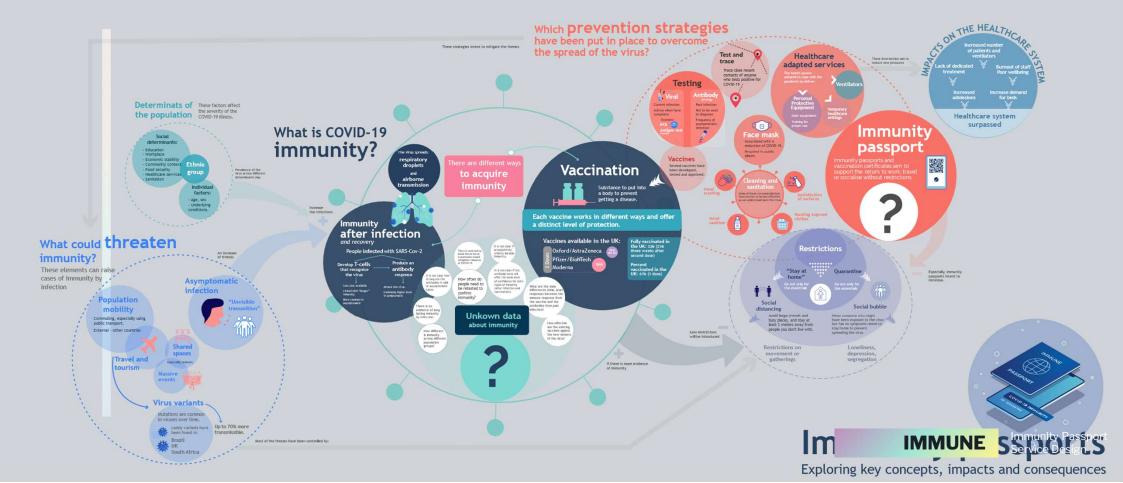
IMMUNE

Immunity Passport Service Design

Synthesis map

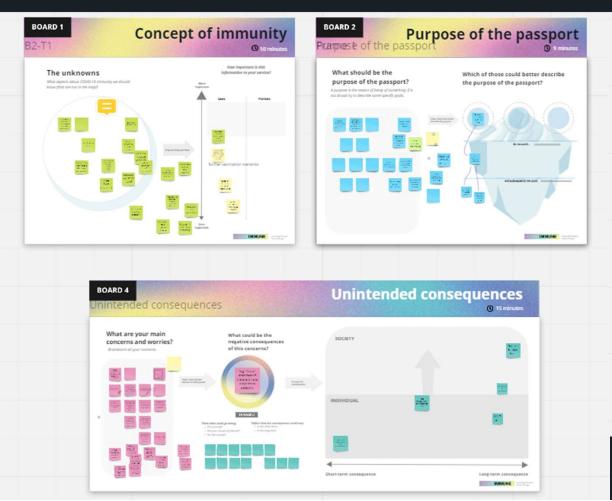
Mobilising knowledge Create a common ground

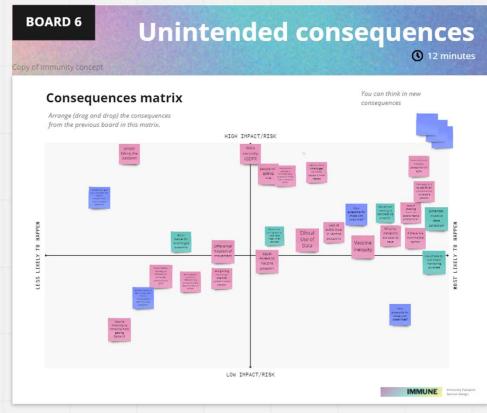




Online environment

(Initial focus group)

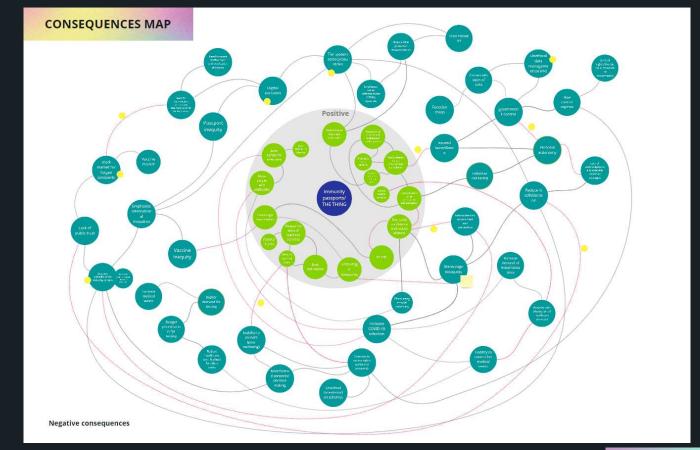






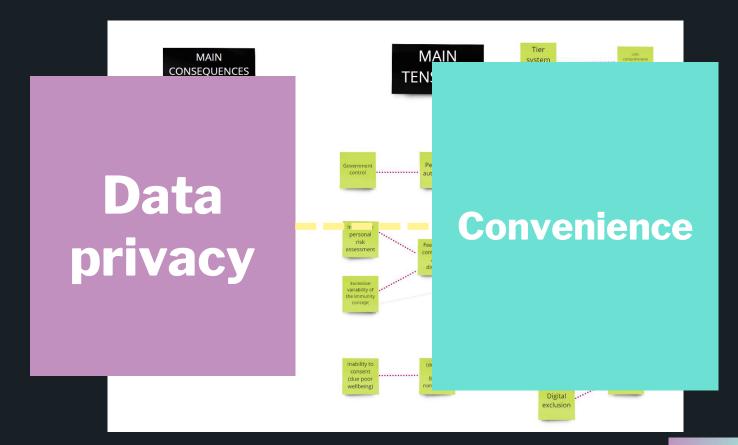
Consequences

(Internal board)



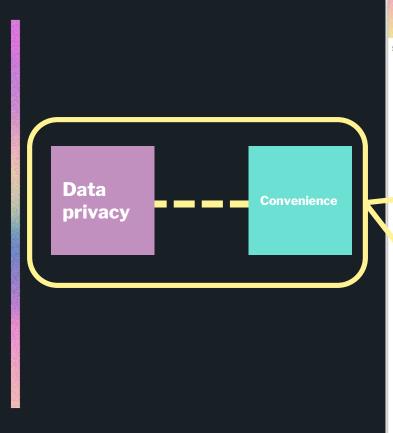
Tensions

(Internal board)



Storytelling

Contextualise the tensions Focus the participatory workshops on key moments

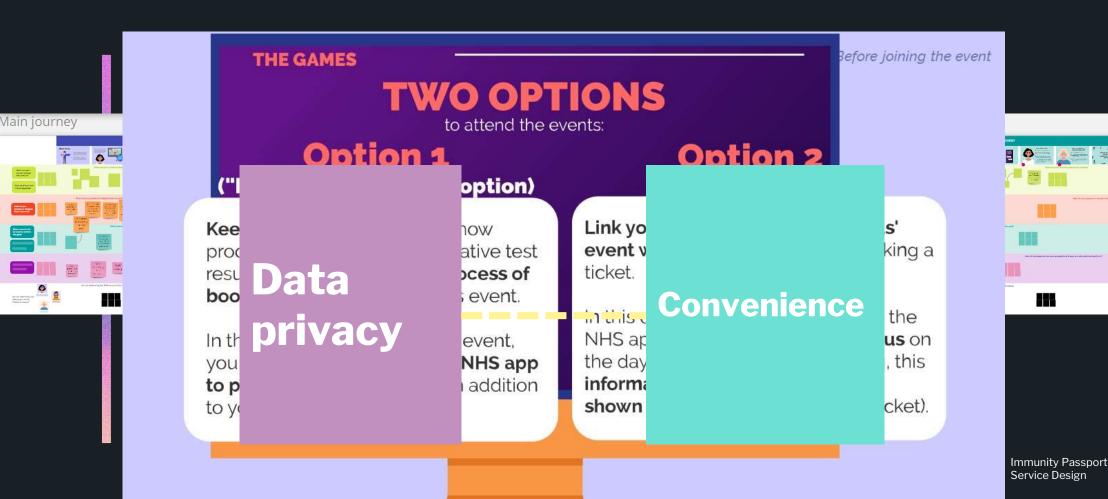




Immunity Passport Service Design

Storytelling

Contextualise the tensions Focus the participatory workshops on key moments





COVID-19



mmunity Passp

Outputs 😘

The outputs of this project will be shared with:

The government's Scientific Advisory Board for Emergencies (SAGE).

Public Health England (PHE)

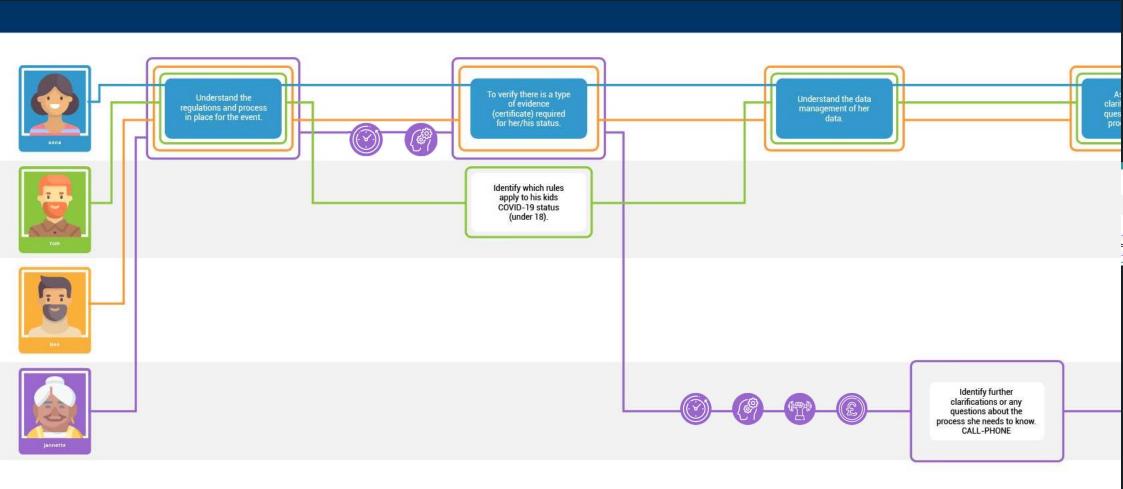
The NHS X

Local councils across the UK and the public.



Trade-offs between **communicating complexity** and **oversimplifying findings.**

Integrated journey map



Conclusions and what is next





Conclusions



Storytelling engage and facilitate discusions with these heterogeneous groups

(Even more than initial synthesis maps)



Journey maps have the potential to communicate complexity

People face tensions and dilemmas differently when interact with services.

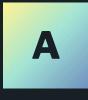


If the most "evident" idea is not well understood, choose it as your main message.

Tone down the level of complexity to be communicated.



Future questions



How improved the integrated journey maps?



How to "design for crises" applying a systems-oriented approach?

Tension reactive vs. slow-paced

THANK YOU



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