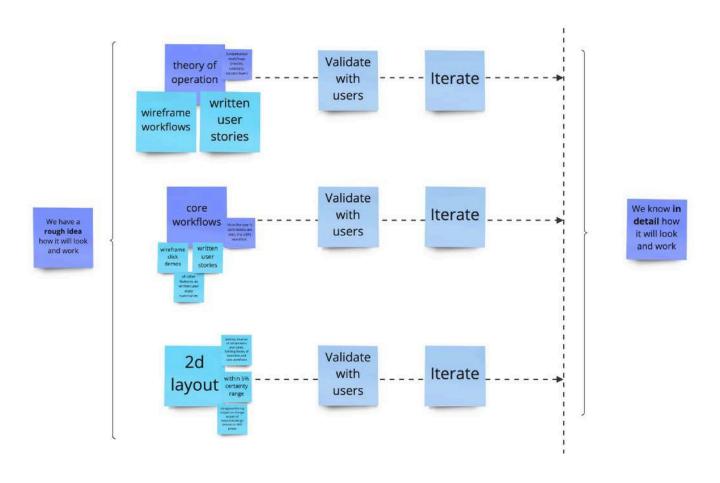
# HW/SW Product/UX Design @ Native Instruments

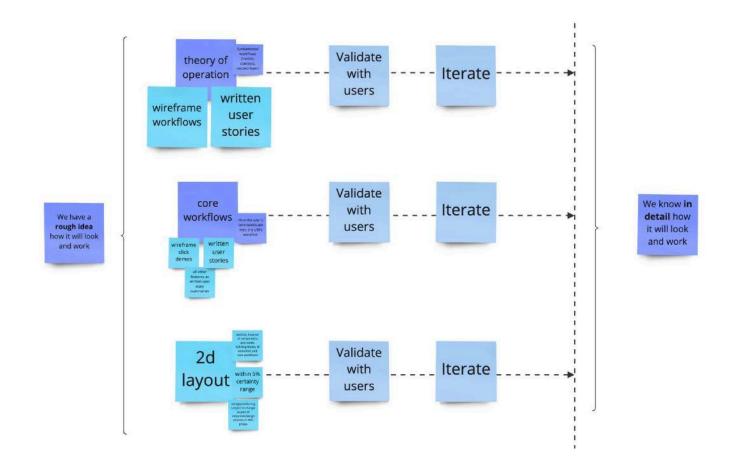
Ant Orant x reMarkable 2023

(Product context) MASCHINE is an all-in-one music production and performance system





1. Product concept ideation roadmap



With the Product team concluding an improvised, engineering-centric ideation phase, about to begin work on the next product, the designers needed to define and sequence the key milestones in order to deliver a strong concept within a much tighter deadline.

I reviewed assets and communication from the previous cycle, identified the core artefacts and activities, then grouped and ordered them chronologically.

The Design team entered the next cycle with clear priorities and realistic goals.

"Outcomes over output"

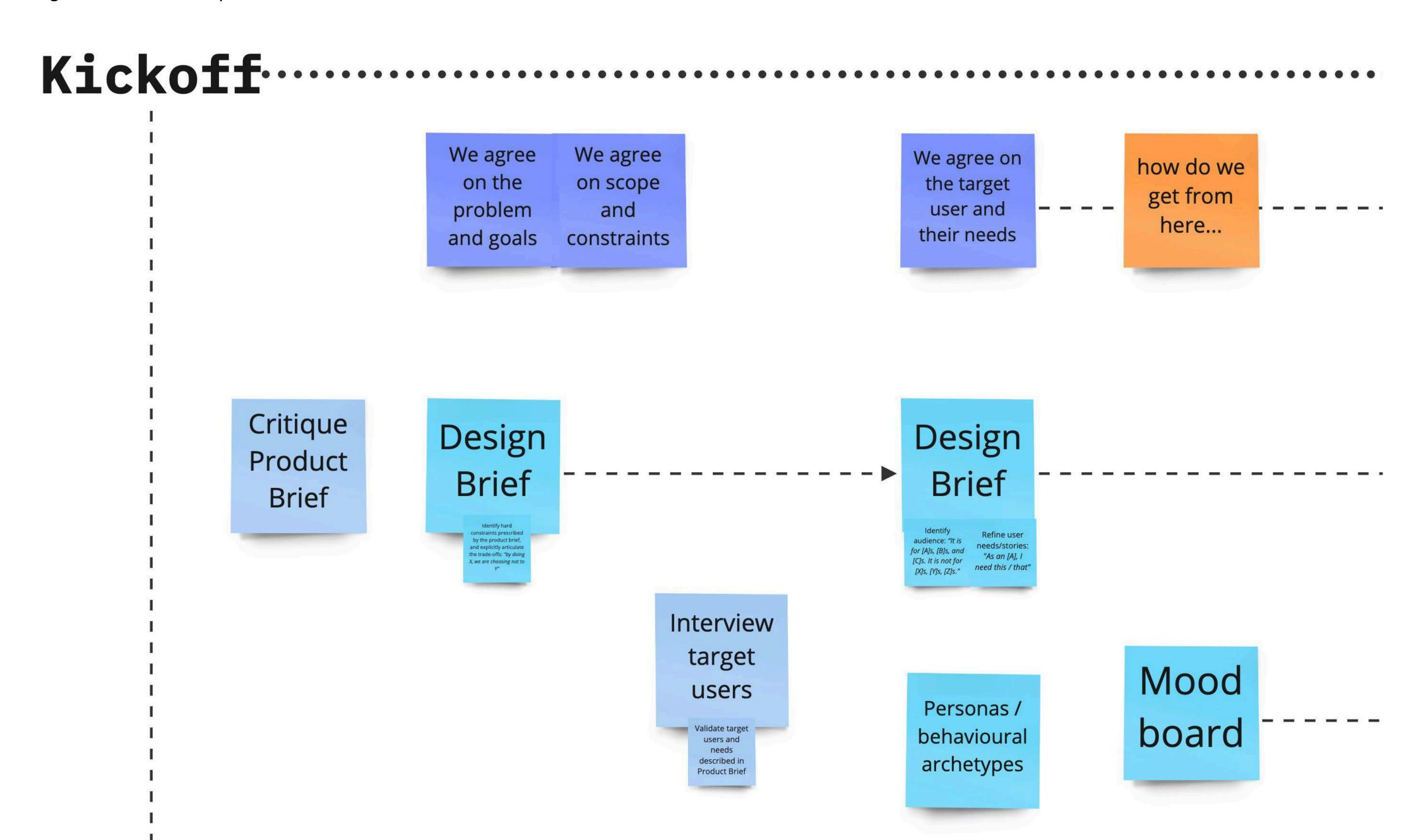
**ACTIVITY** 

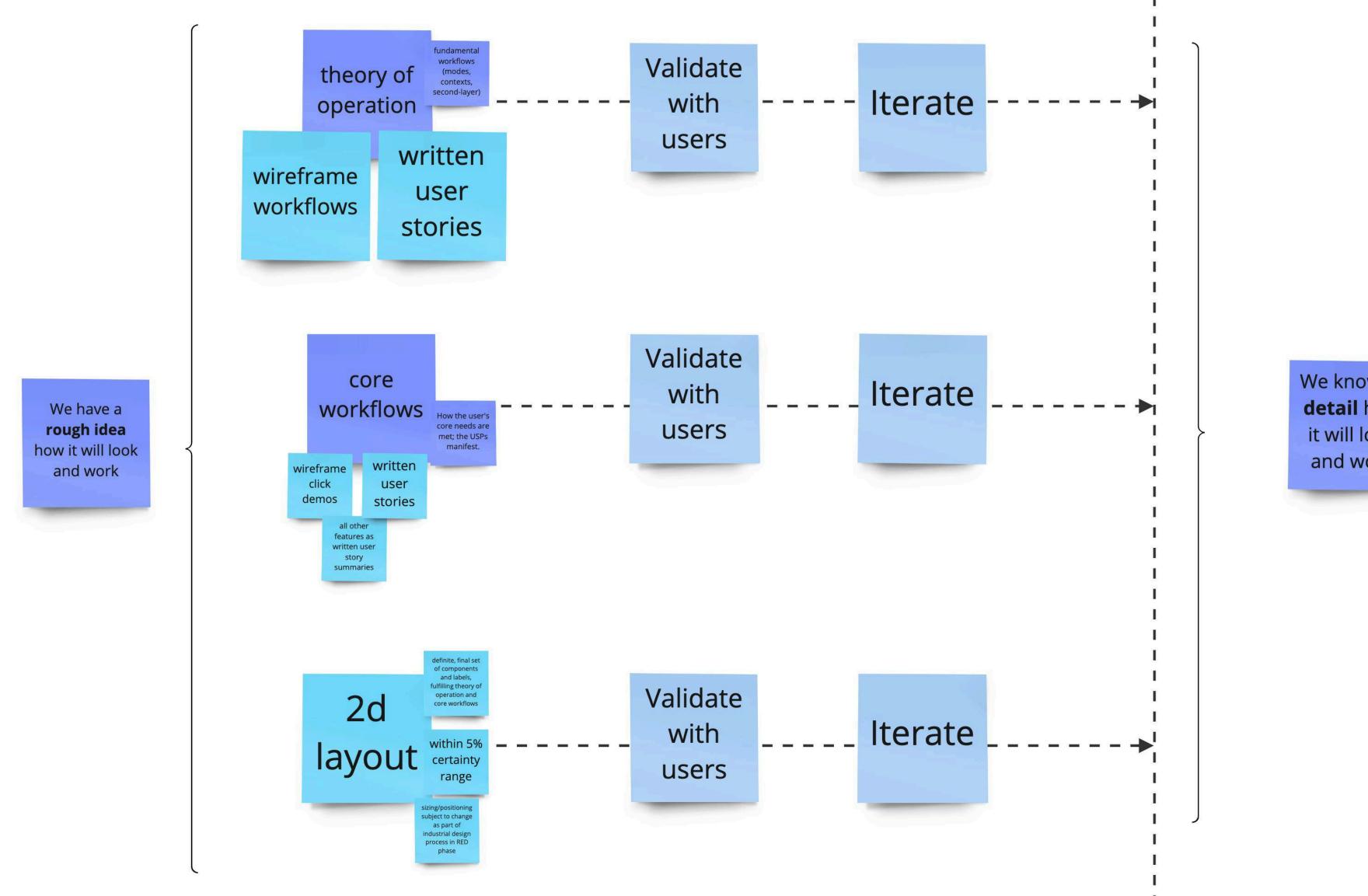
Do the thing

OUTPUT

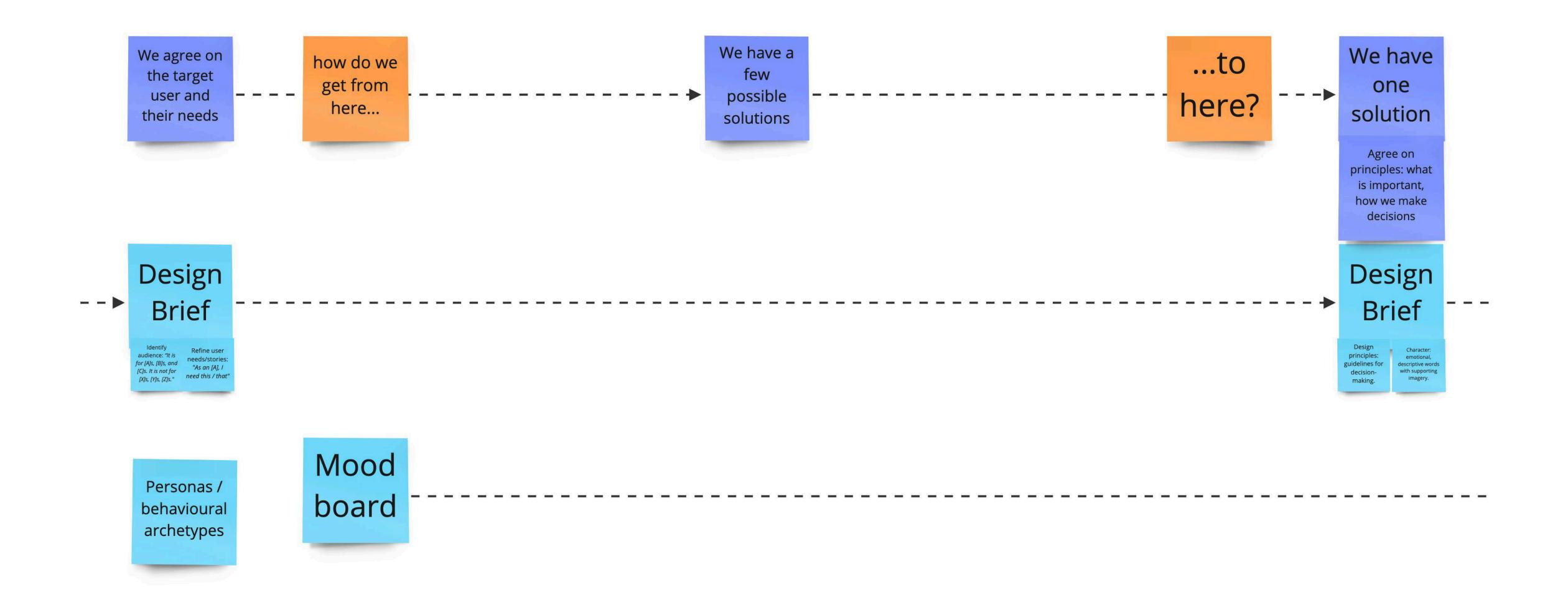
Artefact, tangible deliverable OUTCOME

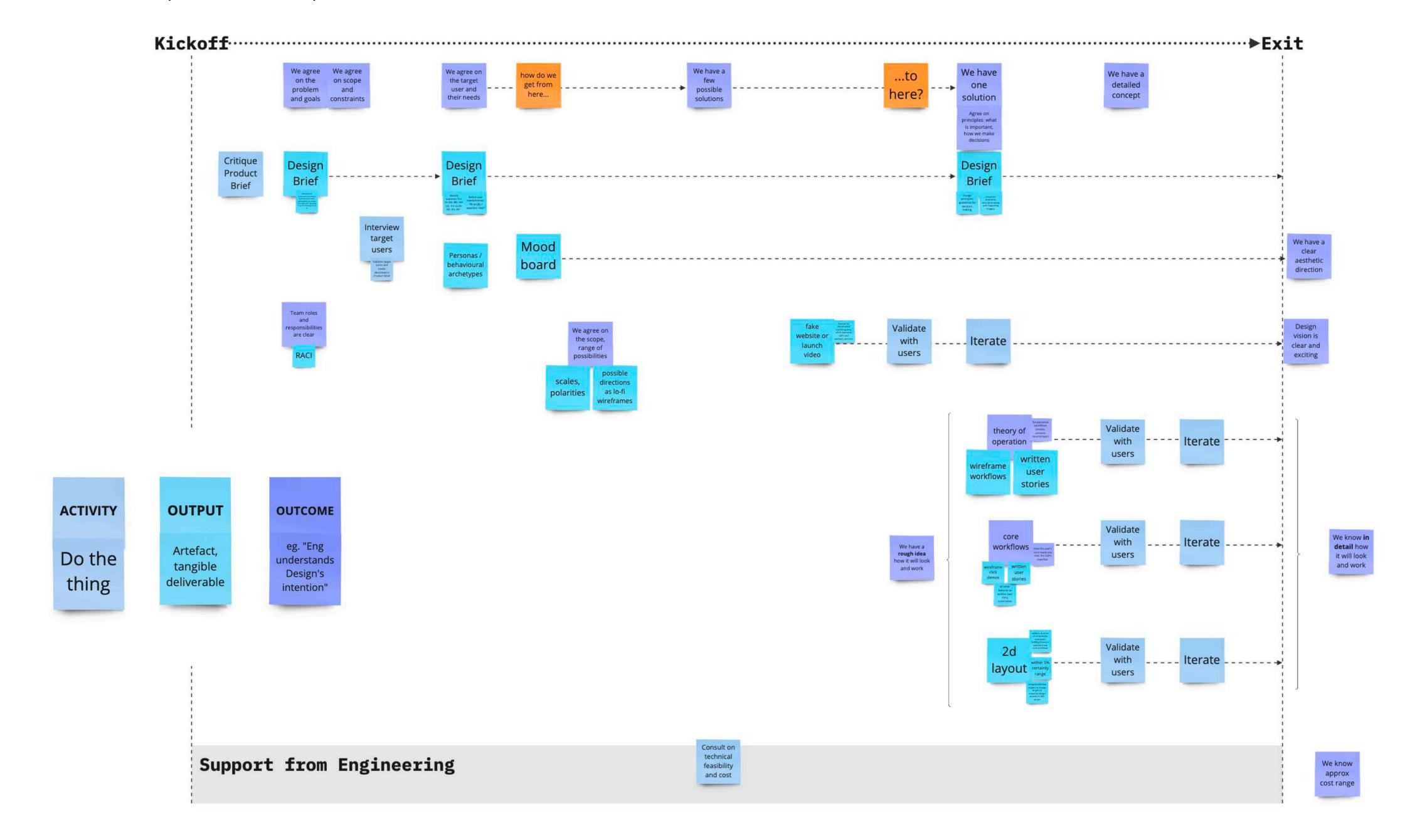
eg. "Eng understands Design's intention"

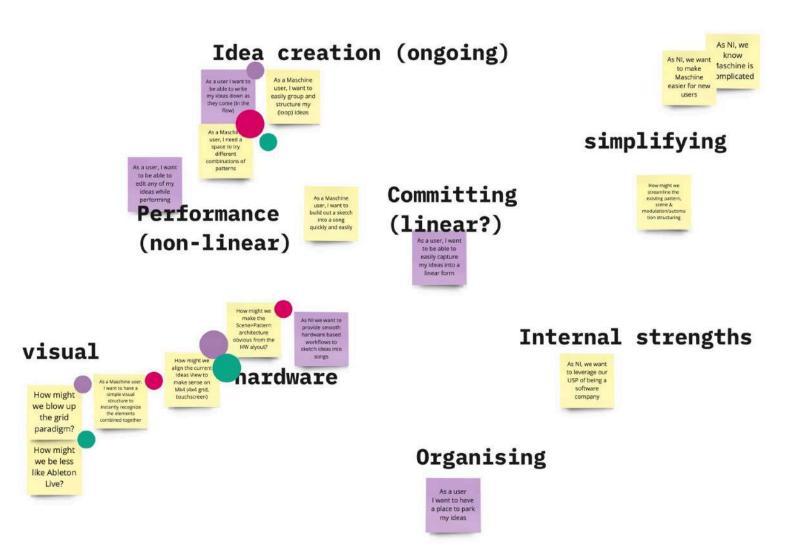




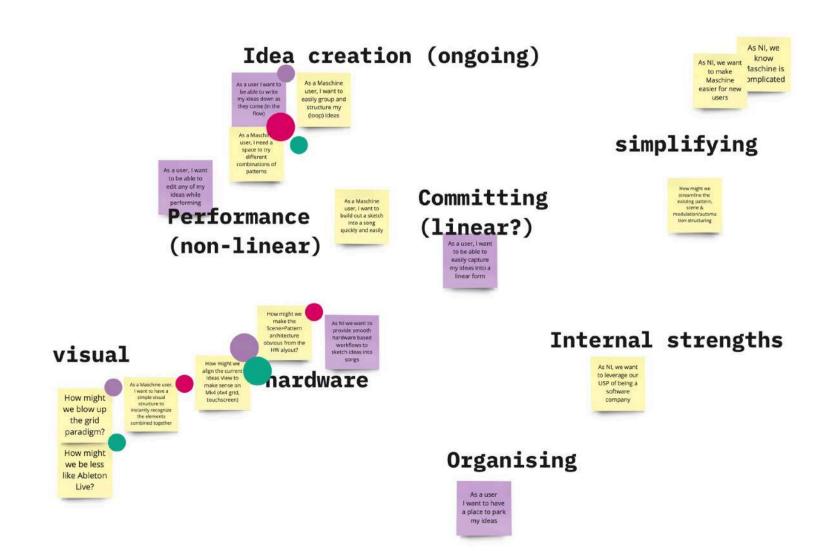
We know in detail how it will look and work







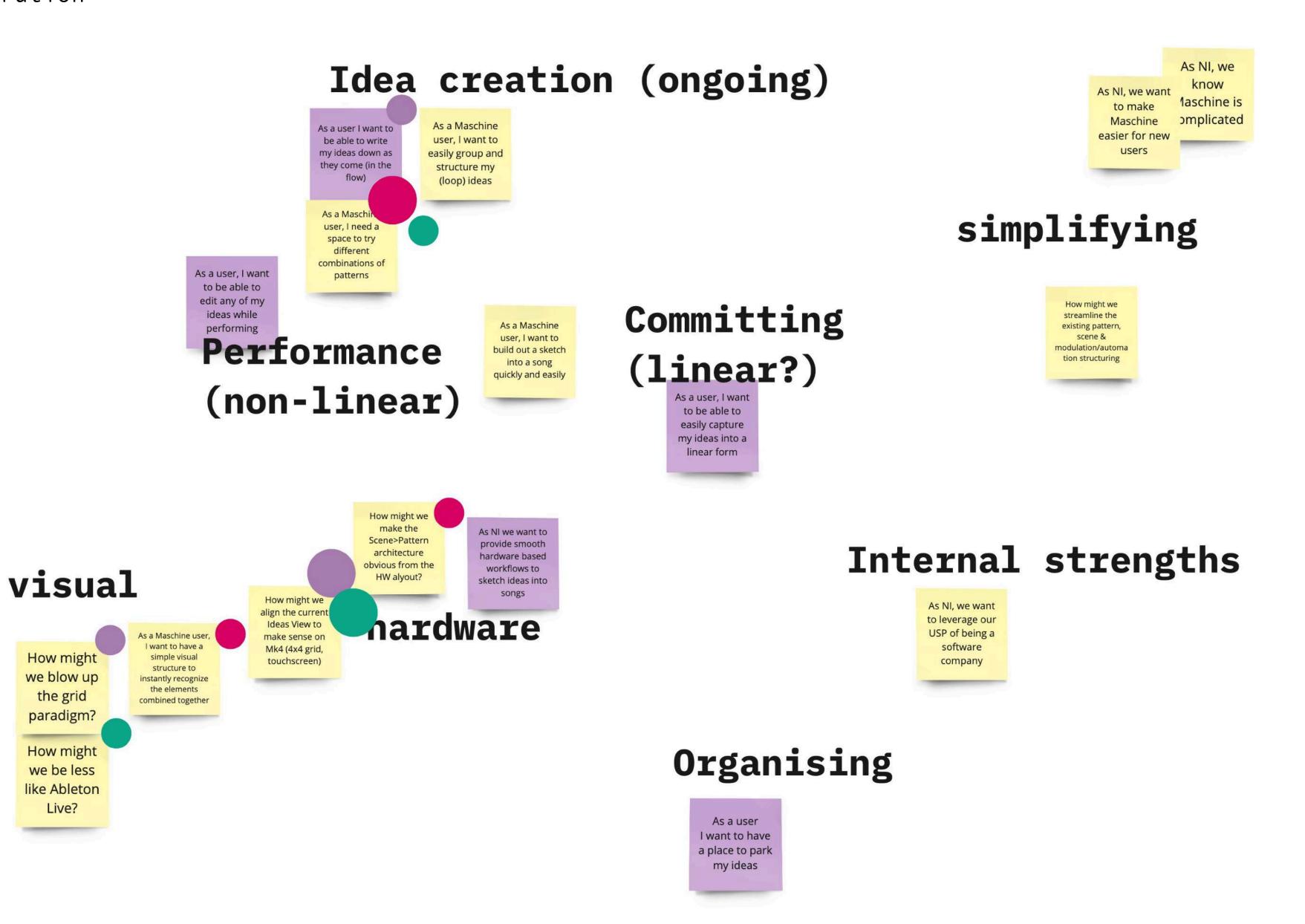
2. "Ideas" view exploration sprint



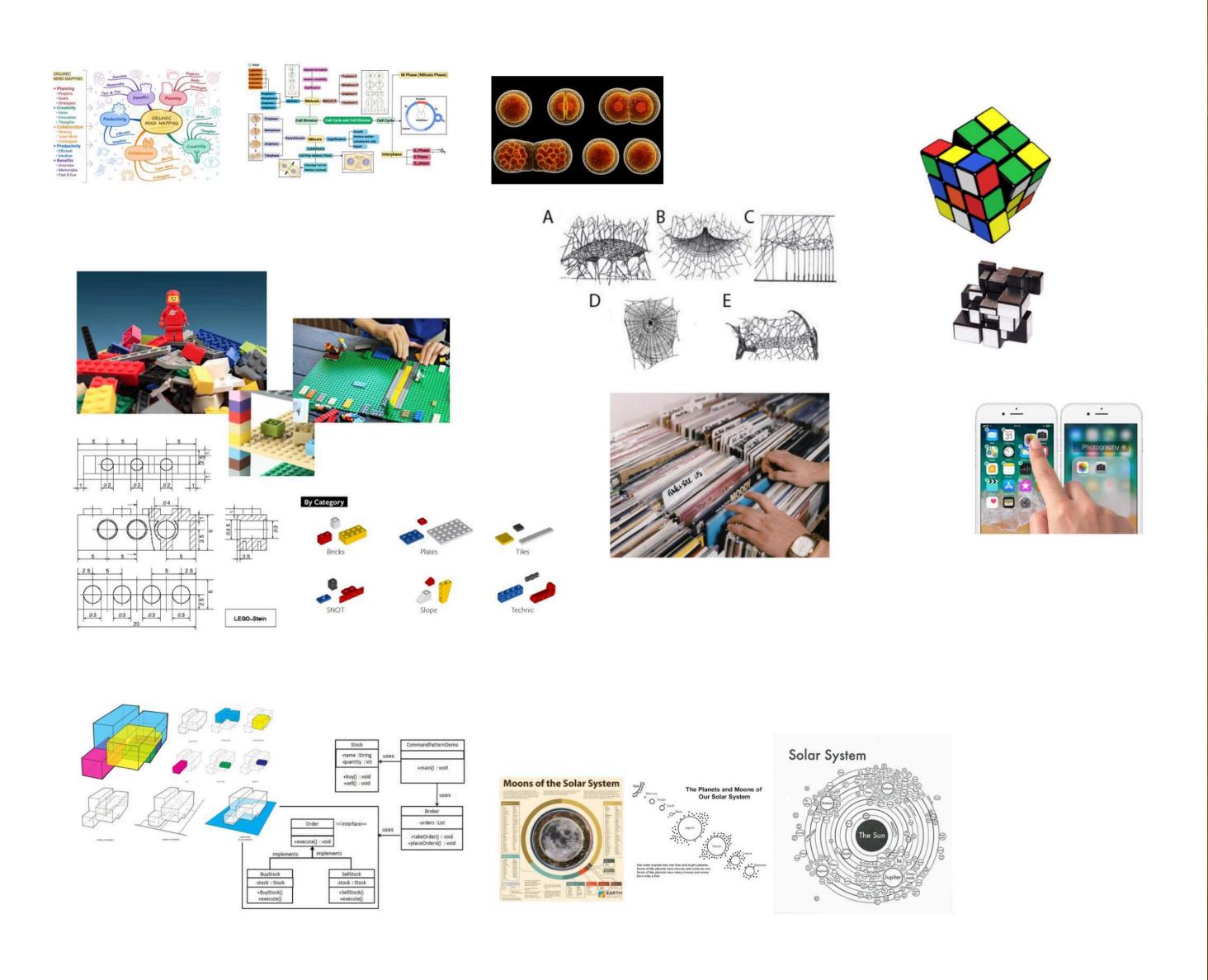
Approaching ideation exit with a long wish-list of features and limited engineering resources, the team informally identified the "Ideas" feature as a critical UX improvement, but with a lack of clarity around scope, effort and feasibility.

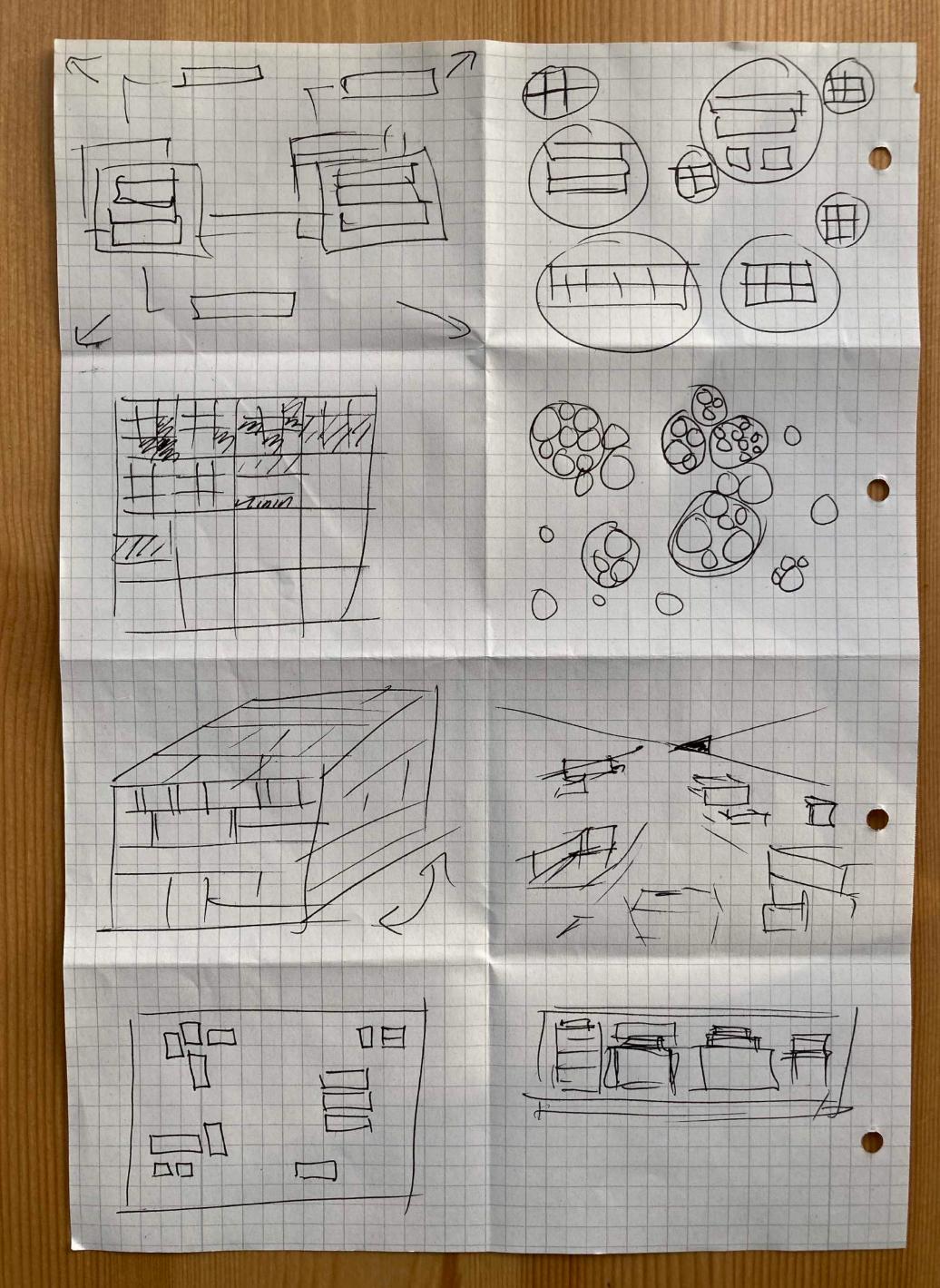
I led a two-day workshop with key product team members, with the goal of capturing and structuring the various concerns, advocacy, and technical considerations, then quickly exploring the range of possible changes.

The problem context and detail were documented in a shareable format, with potential solutions shaped and scoped, prioritised by confidence and effort, leading to a clear decision.

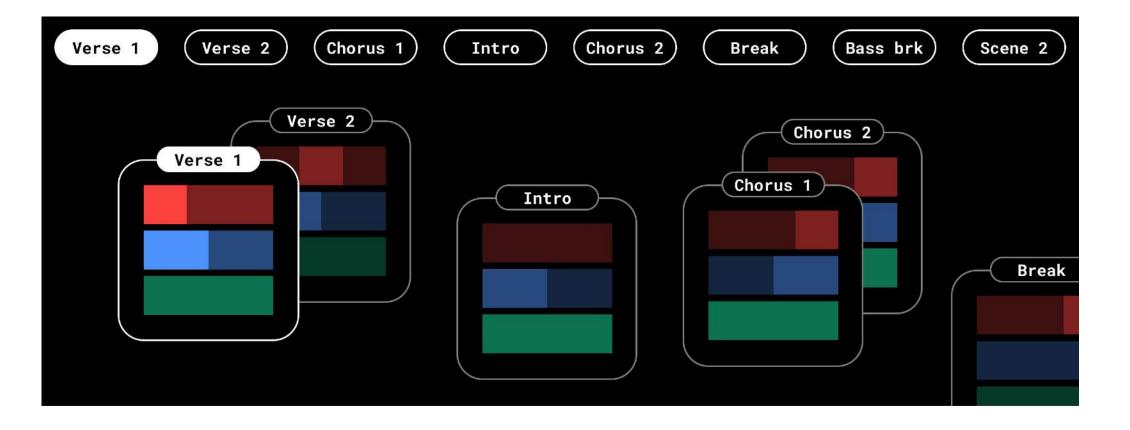


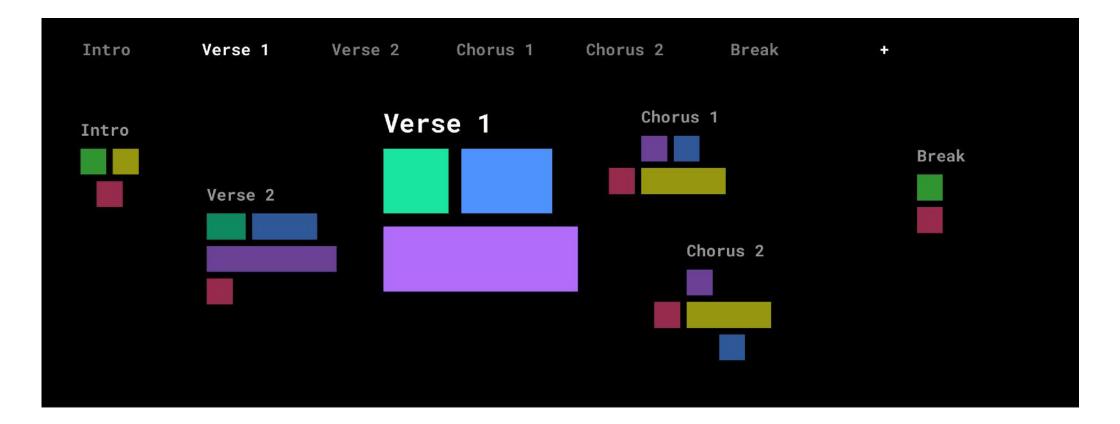
## Exploration, benchmarking, rapid ideation





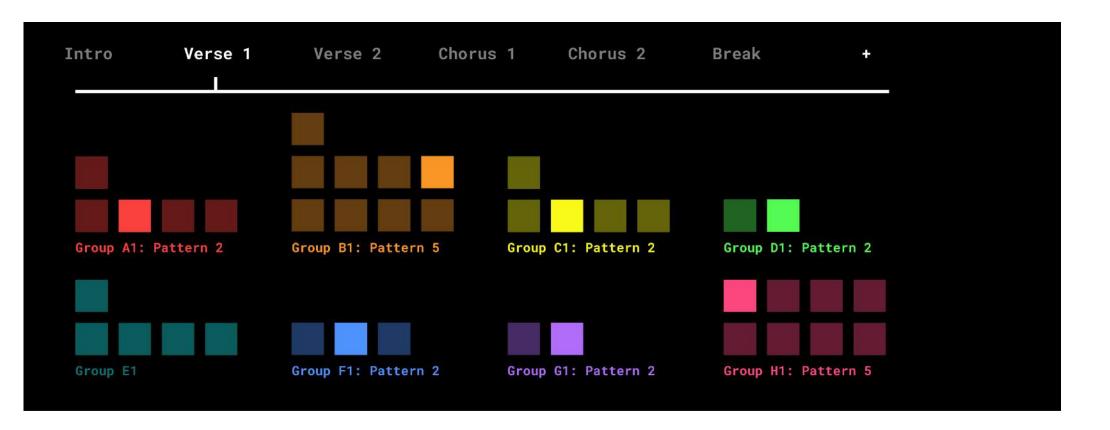
### UI exploration

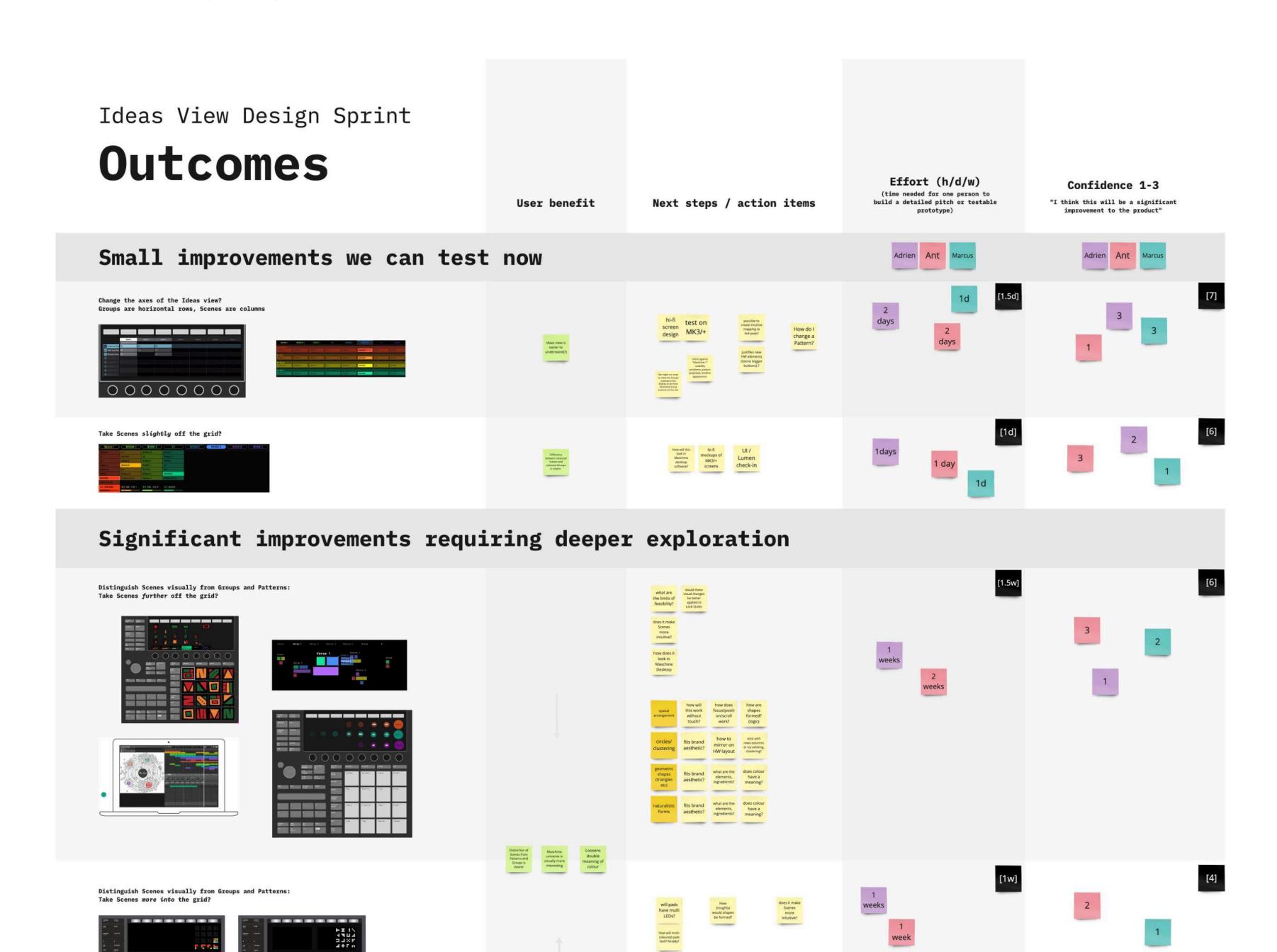












Let's try these quickly

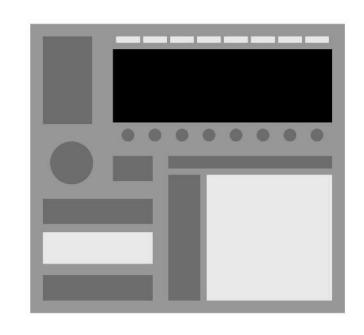


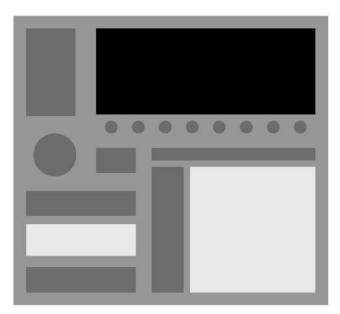
3. Lean feature/workflow discovery: Context menu / OPTION button

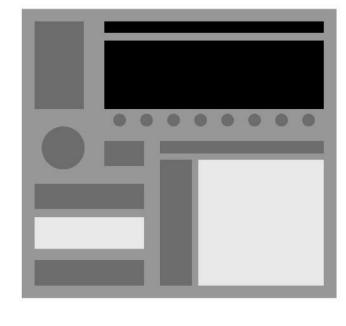
With the Product team close to finalising a concept, committing to a new hardware layout with significant changes to core interactions, an engineer (and power user) strongly advocated for a change to the navigation and organisation of features which would drastically simplify the workflow architecture and improve discoverability.

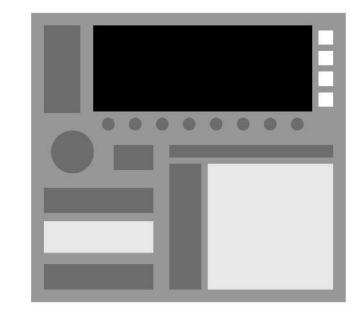
The topic appeared abstract to people with less hands-on experience using the product. I took on the task of channeling the engineer's advocacy, validating the perceived problem and shaping the proposed solution, aligning the potential value with the essential product story.

We turned disparate conversations into impactful, shareable artefacts, and convinced the wider team to commit to the feature.









One-page summary of problem and background

#### What?

The Context Menu is a third layer of access to functionality (after direct and SHIFT)

Conceptually, it's similar to a right-click on a computer, or a long-press on an iPhone: it gives me access to functionality which isn't directly accessible from the main interface.

## Background

Maschine has two layers of functionality: the main/top layer "direct access", and the Shift layer.

Generally, each hardware button corresponds to...

- a view (Ideas, Settings, Scene, etc)
- a mode (Pitch, Perform, Keyboard, Step, etc)
- or a global action (Play, Rec, etc)

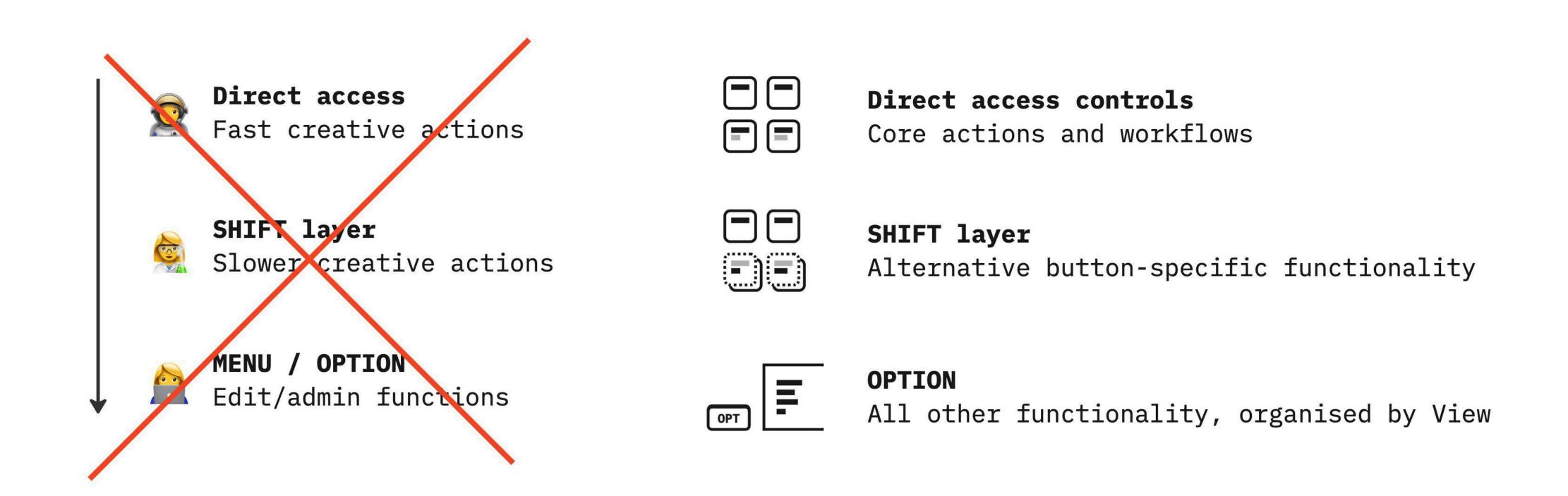
For every View and Mode there are specific actions or settings. These are accessible on the eight soft buttons above the screen.

## Why introduce a Context Menu?

- 1. Some hardware buttons are only used for global settings (eg. Swing). If only set or adjusted once or twice per project, they don't require direct access they'd more logically live under project settings. These hardware buttons could be removed or assigned to more creative functions.
- 2. Some views could logically be merged into other views (eg. Channel: Input/Output into Mixer view, and Groove into Plugin view). This would **simplify the architecture** (less views) and **free up hardware buttons** for more creative functions.
- 3. We only have maximum 16 slots per View/Mode for contextual functionality.

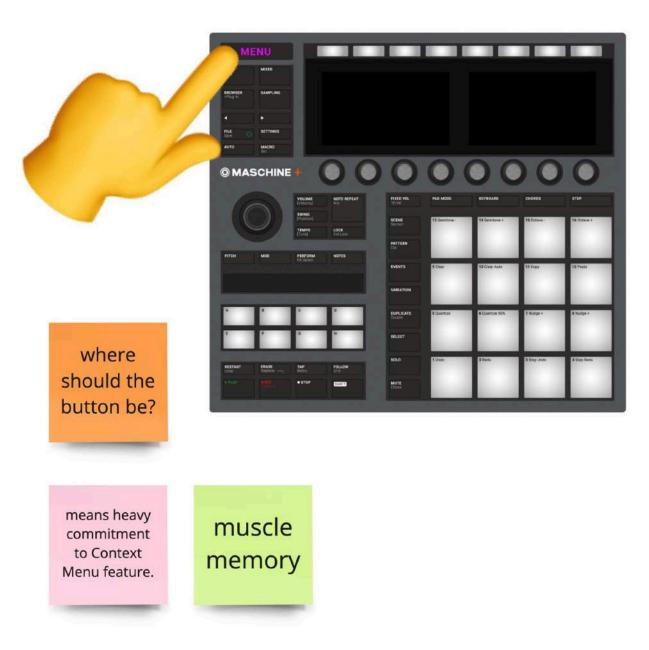
(ie. screen buttons: 8 direct access, 8 shift layer).

Both creative/flow actions and more admin functions exist in these slots, and the placement is inconsistent. A context menu would be the default location for all non-creative/non-flow actions, opening up the **soft buttons for only creative/flow** actions, with consistent placement.



## How do I open the Context Menu?

Option 1:
Press a [MENU] button
(we add a new button)



Option 2: Press a combination of (existing) buttons

SHIFT + Select?



#### Option 3: Touch the screen

Two/three-finger tap?
Swipe from edge/corner?



One-page summary of user story, commitments and unknowns

#### Proposal 2023-05-27

In a nutshell / as a user:

- I press SHIFT to access secondary functionality of hardware buttons and screen buttons.
- I press OPTION to access further functionality and settings relating to the current View.

Decision / commitments at this point:

- · We keep the SHIFT layer and button.
- We call the context menu OPTION.
- The OPTION layer functionality is View-specific (not element specific).
- We do add a new hardware button for OPTION, but add a SHIFT function to a nearby button (propose: Select)

Known open questions / work to do / rabbit-holes:

- UI (at design-system level) for OPTION layer.
- Structure of OPTION list vertical/horizontal, groups, nested, etc.
- Use/role of touch interactions for OPTION layer.
- How does current focus (eg. Scene, Pattern) respond to or influence OPTION-layer functionality.
- Make second-layer functionality more visible/discoverable in general, across the design system (concerns Kontrol also).
- Press-and-hold might also be a viable interaction to activate the OPTION layer.
- We still need to list the extended functionality and settings for each View.
- We are not yet sure exactly what the consequent structural changes will be.





Thanks!

Detail/case studies on request

→ ant @ ajo.design