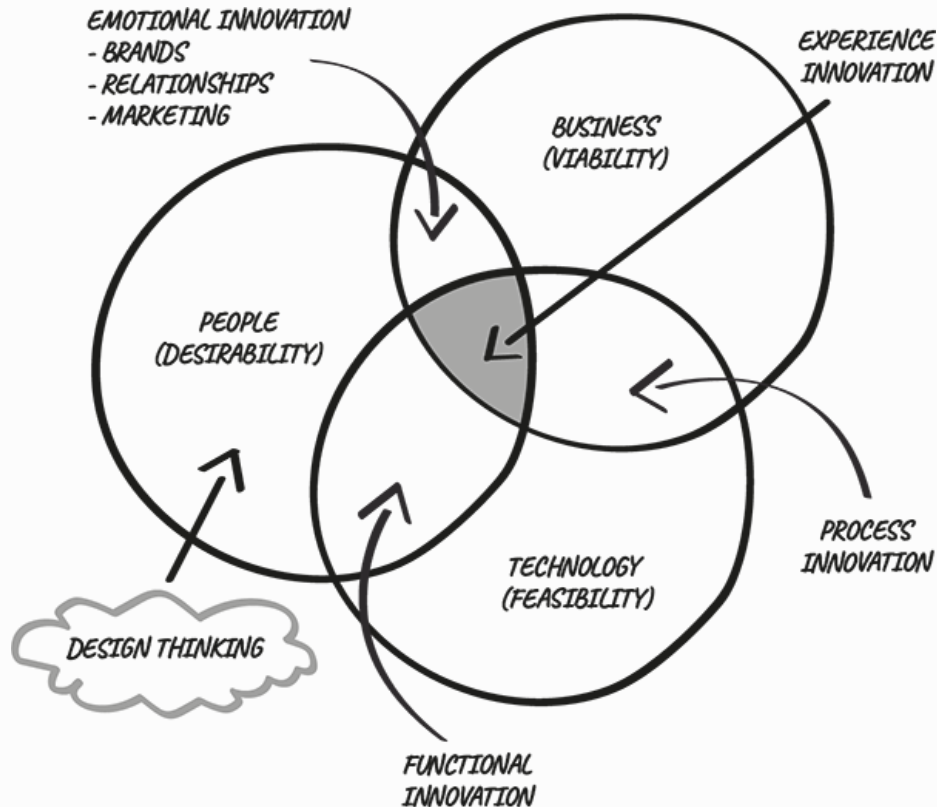


# Projects



.... executing on our pipeline of work

- we are targeting an appropriate combination of innovation drivers (feasibility, desirability, viability) under given time constraints
- this will help us to find the product-market fit



## Pipeline of Work

- a pipeline of work (project, programme, initiative, action, etc.) with machine learning functionalities that introduces change into organisation and solves business problems
- the objective is to reach business goals by collaborating on solving product requirements of new and current development projects across the organisation
- the [Idea Backlog](#) helps to identify candidates for pipeline of work according to their stage of product development and prioritise for execution (if successful)

## strategic initiatives

- broadly focused projects to solve long-term challenges

business	project	type	description	current state	last update
Fund Valuation Oversight	NAV3-POC	POC	POC of Data-Driven processes for NAV validation	finishing the project	20 Aug 2021

## tactical initiatives

- narrowly focused projects to solve immediate challenges

business	project	type	description	current state	last update
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Client Onboarding	ALPHA	Ad Hoc	revisiting a Data Mapping solution by ALPHA project	Alpha solution is now completely hosted on our side	08 Sep 2021
Auto-Clearance?					
FVC?					

## Product Innovation Framework

project	POC (Proof of Concept)	Prototype	MVP (Minimum Viable Product)	Production
<b>purpose</b>	<i>to describe an innovative product and show whether it can be developed</i>	<i>to show how a feasible, innovative product can be developed</i>	<i>to build a usable innovative product for early adopters</i>	<i>to engineer a production-grade innovative product for public release</i>
<b>requirement</b>	<ul style="list-style-type: none"> <li>team of business and technology development SMEs (Subject Matter Experts) that can collaborate on making detailed &amp; accurate observations</li> <li>collaborative client (or user) interested in innovation and early adoption</li> <li>computational environment for data analysis</li> <li>production data</li> </ul>	<ul style="list-style-type: none"> <li>defined product (POC)</li> <li>product requirements (prototypes)</li> <li>team of business and technology development SMEs</li> <li>collaborative client (or user) interested in innovation and early adoption</li> <li>computational environment for ML prototyping</li> <li>production data</li> </ul>	<ul style="list-style-type: none"> <li>developed product (prototypes)</li> <li>product requirements (MVP)</li> <li>team of business and technology development SMEs</li> <li>computational environment for development of ML products</li> <li>product differentiation</li> <li>qualified prospects</li> <li>production data</li> </ul>	<ul style="list-style-type: none"> <li>developed product (MVP)</li> <li>product requirements (commercial product)</li> <li>team of business and technology development SMEs</li> <li>computational environment for productionalisation of ML products</li> <li>business model</li> <li>signed up customers (or letter of intent)</li> <li>production data</li> </ul>
<b>deliverable</b>	<ol style="list-style-type: none"> <li><b>business development (strategic partnership)</b> <ol style="list-style-type: none"> <li>client enrolment</li> <li>production data approval</li> <li>market sizing (bottom-up analysis)</li> </ol> </li> <li><b>computational environment (data analysis)</b> <ol style="list-style-type: none"> <li>data analysis workflow</li> <li>data governance</li> </ol> </li> <li><b>product ideation (research hypothesis)</b> <ol style="list-style-type: none"> <li>idea creation: brainstorming innovative product features</li> <li>hypothesis development: creating a set of hypothesis statements for innovative product features</li> <li>hypothesis validation: attaching a commercial statement to each hypothesis statement</li> <li>hypothesis prioritisation: prioritising each hypothesis for experiments by commercial (immediacy and value), research, and execution objectives</li> </ol> </li> <li><b>product requirements (prototypes)</b> <ol style="list-style-type: none"> <li>experiment requirements: describing experiments for each hypothesis by identifying phenomena, observations, data, and approaches and forming a good user stories with acceptance criteria and concrete examples from this</li> <li>applied research performance: reviewing ML literature for each experiment requirement</li> <li>data analysis: analysing the quality of production data for each experiment requirement</li> </ol> </li> <li><b>product feasibility</b> <ul style="list-style-type: none"> <li>results of hypothesis validation</li> <li>results of experiment requirements</li> <li>results of applied research performance</li> <li>results of data analysis</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li><b>business development (strategic partnership)</b> <ol style="list-style-type: none"> <li>client enrolment</li> <li>production data approval</li> <li>competitor analysis: product differentiation</li> <li>sales pipeline: qualified prospects</li> </ol> </li> <li><b>computational environment (prototyping)</b></li> <li><b>product development (prototypes)</b> <ol style="list-style-type: none"> <li>development: prototyping experimental ML models</li> <li>testing: user desirability of experimental ML models</li> </ol> </li> <li><b>product requirements (MVP)</b> <ul style="list-style-type: none"> <li>definition of product purpose, features, functionality, and behaviour</li> <li>product acceptance criteria</li> </ul> </li> <li><b>product desirability (value proposition)</b></li> </ol>	<ol style="list-style-type: none"> <li><b>business development</b> <ol style="list-style-type: none"> <li>client enrolment</li> <li>production data approval</li> <li>business model</li> <li>sales pipeline: customer sign up</li> </ol> </li> <li><b>computational environment (MVP)</b></li> <li><b>product development (MVP)</b> <ol style="list-style-type: none"> <li>development</li> <li>testing (UAT, etc.)</li> <li>deployment</li> </ol> </li> <li><b>product requirements (commercial product)</b> <ul style="list-style-type: none"> <li>definition of product purpose, features, functionality, and behaviour</li> <li>product acceptance criteria</li> </ul> </li> <li><b>product viability (business model)</b></li> <li><b>product release (early adopters)</b></li> </ol>	<ol style="list-style-type: none"> <li><b>sales development</b></li> <li><b>computational environment (production)</b></li> <li><b>product development</b> <ol style="list-style-type: none"> <li>development</li> <li>testing</li> <li>deployment</li> </ol> </li> <li><b>product release (public)</b></li> </ol>
<b>outcome</b>	definition of feasible innovative product	desirable and feasible innovative product	viable, desirable, and feasible innovative product	commercial innovative product

## Best Practice

- product requirements - modern software development**
  - each product functionality (or feature) should to be described with the below 3 criteria in order to be developed
    - user story:** a narrative description of a need that serves as a "placeholder for a conversation"
      - example - <https://www.atlassian.com/agile/project-management/user-stories>
    - acceptance criteria:** a fine-grained description of a required behaviour of the system
      - example - <https://agileforgrowth.com/blog/acceptance-criteria-checklist/>
    - concrete example:** a single combination of *context-action-outcome* that clarifies how each acceptance criterium should behave
      - Behaviour-Driven Development (BDD) - <https://cucumber.io/blog/bdd/better-requirements-by-harnessing-the-power-of-exa/>
  - please feel free to read more about this approach and make suggestions (some initial examples are listed in the above links)
- business development - product rollout**
  - clients may not be upgrading our products often (maybe once few years)
  - this makes the integration of new product features into pControl challenging

- qualified prospects should be identified at the Prototype stage to make sure the product (MVP and Production) is adopted right away when it is developed
- **product development - plan for product development (vendor VS in-house decision)**
  - making informed decisions between building own solution in-house or going with vendors is challenging
  - it requires to assess if the business is ready for product development activities and estimate the accurate prices & time quotes (not coming up with the solution)
    1. business readiness
    2. product requirements
    3. engagement plan (process, system, data, communication approaches)
  - this is preferably done without spending time on a full-fledge RFP (Request For Proposal) unless required
  - we can ensure that we are setup and ready for a product development (in-house or vendor) if we do a POC project for this beforehand