Idea Backlog

... a product backlog for anyone's ideas to improve anything around pControl with data-driven techniques

- please feel free to put your ideas here
- then, we can brainstorm the idea and business value together
- this will help us to convert the idea into a candidate project

idea	brief description	current state	raised by	date
NAV Validation with Machine Learning	• experiment with machine learning to enable the next era of NAV Validations	• business rules driven auto-clearance capabilities (procedural)	Phil Davies	11 Jan 2021

NAV Validation with Market News	• pControl validations can be extended with news articles
	  • clients often read market news to gain confidence with their NAV validations, e.g. price movements
	  • news articles should not be random, e.g. suggested based on client data and interests (sentiment analysis can be a good starting point)
	• pControl or new product with different UX approach can potentially deliver this functionality
		• n/a	Theresa Clemitson
			
			Tomas Turek
				28 Jan 2021

NAV Validation with User Behaviour Patterns	• identifying behavioural patterns to see user overridden exceptions and apply the learned user behaviour and relevant market movement to outstanding exceptions • data-driven suggestions to apply the learned logic of manually cleared exceptions by users • this is about the approval of exceptions (not flagging exceptions)	• n/a	Graham Lynch Tomas Turek	13 May 2021
Client Onboarding with Web Portal	• digitising how clients get data into the system • clients can drop files into a web portal that automatically takes care of data mapping to pControl • getting closer to end-to-end deployment	deployment approach • Data Workshop • pControl Operational Worksop (POW)	Grant Westbury	28 Jan 2021
Client Onboarding with Digital Assistant	• digitising training of clients on the system • virtual assistant helping clients with training	deployment approach • Data Workshop • pControl Training Worksop (PTW)	Grant Westbury	28 Jan 2021

Dynamic Management of Classification Structures	1. Investment managers/asset allocators create guidelines/frameworks to define their investment strategy, and then manage their actual/implemented portfolio to be compliant with those guidelines.
	2. pC's Classification Structures provide the capability to define those guidelines/frameworks, through which the actual/implemented portfolio can be monitored for compliance with the strategy.
	3. Some strategies can by dynamic, changing according to exogenous factors, such as economic indicators.
	4. Idea: Use AI, to monitor external sources of data and use those data to adjust the parameters which define/control the classification structures (cALPs: classification allocation parameters.)
	5. Use case:
	  a. A particular classification structure should reflect some selected market, e.g. I am a citizen of Boston, Massachusetts, USA, therefore, that is my individual personal economy, which is likely quite different from the economy of Butte, Montana USA, or Juneau, Alaska USA, or Tokyo Japan, or Liverpool, England.
	  b. I will create a set of classification structures that reflect that factors that I believe are relevant to define a 'market' in general.
	  c. and then set the parameters such that they reflect the profile of Boston , Massachusetts, USA
	  d. and then I want pC's AI to monitor external sources for economic data necessary to dynamically revise and reflect the changing Boston Economy,
	  e. and update the cALPs in the classification structures, accordingly,
	  f. in that way, my investment strategy is always tuned to the Boston economy, rather than being influenced by a broader view of the US or global economy.
			Randal McGathey
			
			Tomas Turek
				25 Feb 2021

Reconciliation Engine Module	use cases
	
	1. general matching engine
	  • matching two generic data sources (ie replacement of 'magic match' engine)
	2. cash allocation
	  • for trades, reconciling front office and back office with trades on both side
	3. fund oversight
	  • matching of pricing from vendors
		• data are currently enhanced by "magic matching" within certain tolerances
		• it is about identifying matches / matching groups by rule-driven processes via "configuration module"
			Graham Lynch	13 May 2021

System Management Feature	• queuing strategy to anticipate volumes and load times of client events (reporting and reconciliation)
	  • identifying data loads and their patterns
	  • creating signals when to upscale services in advance
	  • automating the process of managing the queue (without affecting the client operations and computing cost)
	• Anticipate and\or manage large heavy weight jobs eg clients reports (some taking > 1 hour) as these events are not run often (month or year end), but they affect the system performance (stability) and impact the delivery (outages)
	• we need to make sure it will not impact clients operations during the day while we are still servicing enormous reporting and reconciliation jobs
			Graham Lynch	14 May 2021

Portfolio Analysis - Investment Style Recognition	• large pension funds want to have an "oversight" or some supervision capabilities on their investment managers
	1. to know how investment managers are implementing their promised strategies
	2. to know if they need to diversify their investment strategies, e.g. to get another investment manager for new strategy
	• this is some advanced analytics capability that MG can potentially develop as a new product or product feature
	• this observation is supported by the research from Government Pension Investment Fund (GPIF) in Japan
	  • they are one of the biggest pension plans in the world (US$1.6T)
	  • our review is in our Knowledge Sharing page on Confluence https://intranet.milestonegroup.com.au/x/wwHYB
			Randal McGathey
			
			Geoff Hodge
			
			Mark Neary
			
			Sophie Kim
			
			Tomas Turek
				13 Aug 2021