

# Apply product mindset strategy and team topology to future ready your business

Workshop Facilitators : Pranay K Chanda & VC Saravanan





Speaker Intro and Topic Background

Modern Business need for Product Mindset Strategy

### Pillars of Product Mindset Strategy

- Business Strategy Aligned to Customers
- Software Design and Architecture
- Organize and execute with team topologies



Client Story - Challenges and Outcomes

Key Takeaways

## Meet your speakers



Drive Digital Transformations and Project to Product mindset to achieve organizational goals & competitive edge using Agile, DevSecOps, SRE/MLOps and enterprise architecture. Ability to set and drive the big picture strategy across the organization and provide mentorship for successful execution.

V C Saravanan

### Pranay K Chanda

Transformation consultant with experience in advisory consulting across technology modernization, product strategy + design, Agile organization design + change management and lean portfolio management.

Build guiding coalition with executives around strategy, design and execution to thrive as modern business in this digital age.



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## As digital imperatives grow urgent, stubborn obstacles remain

Despite prolonged digital transformation initiatives. most enterprises are still not organized and set up for sustainable success in this new world. Business leaders are often blind to delivery issues like real capacity, dependencies, and risks, while engineering teams often don't have visibility into the big picture, the long-term strategic roadmap, or the business outcomes they are delivering against. This misalignment results in tremendous waste. inefficiency, and frustration.

### **Key Pain Points**

#### ORGANIZATIONAL SILOS



#### LACK OF VISIBILITY

of companies have digital transformation

correlate these silos with reduced customer value and product ROI.

are still challenged with 92% poor product visibility and delivery inefficiency.

#### **PROJECT-CENTRIC (VS. PRODUCT-CENTRIC) PLANNING**

of companies believe they currently have

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state they either benefit or would benefit from /SM capabilities

Source: Dimensional Research, Value Streams are Accelerating Digital Transformation: A Global Survey of Executives and IT Leaders, October 2021

### – Peter Drucker



## Product Mindset Strategy for Modern Business

Product mindset is crucial for firm's business strategy to succeed, sustain and flourish in this digital age Organizations adopting product-centric delivery achieve business value faster and can course correct, when necessary, further amplifying innovation



Product-centric delivery is less about product lines and products and more about the value that is delivered.

Business outcomes are measured by objectives and key results (OKRs), which help track value flow, create alignment, and encourage engagement around measurable goals

Understanding the customers needs and **continuously integrating their feedback** into the design ensures alignment to customer's needs and satisfaction

The **adaptive and iterative -** ability for **early course correction** and provide the ability to deliver business value faster

Product Centric organization leaders break matrixes and **realign with Customer value** and empowers the teams

Empowered **teams are adaptive and innovative** which enables them to make the right decisions at the lowest level possible



Product is the mechanism to organize around the customer. Product teams bring together human factors, business objectives and solution development



#### Moving to a product-centric operating model is a major shift from traditional IT delivery

FROM PROJECTS TO PRODUCTS	BUSINESS AND IT FUSION	HUMAN CENTERED	PURPOSEFUL	VALUE SEEKING	EXPLORATORY
Technology is managed as a long-term asset that will continue to develop and evolve over time.	Transactional hand-offs are avoided by forming cross- functional teams from all areas of product delivery.	Solutions are shaped from the perspective of the user experience, challenging internal constraints.	Teams work to optimize business outcome objectives, that aggregate to the business purpose and	Delivery is directed towards the creation of long-term value for all stakeholders.	Teams are curious and constantly working to identify better solutions.
Teams remain allocated to products allowing for delivery maturity, continuity and user understanding.	Product teams are empowered to deliver on business objectives with a one-team mindset.	Data feedback on solution effectiveness is collected from users at all stages and drives product direction.	mission. Connection to purpose drives meaning and engagement for teams.	Whilst cost efficiency is still an important factor, it is considered within the context of return on investment.	The end-product is typically far away from initial concepts and teams may pivot to emerging opportunities

The holistic transformation journey should start small, build confidence and scale pragmatically for a new enterprise-wide modern agile team (Business/IT/Ops)



# What are Product Mindset Strategy's Pillars?

Understand the pillars for an organization to establish, nurture and scale product mindset culture and behavior change?

1. Business Strategy aligned to end customers



Operational value stream



2. Software Design & Architecture



Rapid Delivery / JIT Architecture

### 3. Organize Product Teams



## DDD / Team Topologies

# Pillar 1: Define business strategy to operational value streams

Articulate the business strategy formulation focused on customer centricity and identify potential revenue value streams

## Define Business Strategy with Wardley's Mapping



## Wardley's Mapping of Online Photo Storage Business





### **Key Pointers**

- We use the handouts at your table, build a business strategy for medical tourism using the Wardley's maps
- Apply the Wardley's map to capture and articulate your business strategy using the 1-4 steps in the handout
- Identify the customers, capabilities, relationship with needs, stage of evolution cycle for each component
- \* Show and Tell with workshop audience (2 min)



Time box : 10 min

## Pillar 2 : Software Design and Architecture

Create a JIT architecture to implement with software architecture patterns for rapid delivery

## CONTINUOUS DELIVERY



 Low risk releases. Faster time to market •Higher quality. Lower costs. Better products. •Happier teams.

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Continuous Delivery is the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments—into production, or into the hands of users, *safely* and *quickly* in a *sustainable* way.

Increase Throughput with CI/CD Automation



**Continuous Development** - an iterative approach to software application development in which updates are released in small, ongoing batches



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**Continuous Integration** – Integrate code changes from multiple contributors into a single project



**Continuous Testing** – Incorporate frequent automated feedback as an integral part of the software delivery pipeline through Automated testing



**Continuous Deployment** – Release the incremental software functionality automatically through testing and into production.



**Continuous Monitoring** – constantly monitor IT systems and networks to detect security threats, performance issues, or non-compliance problems in an automated manner



**Continuous Feedback** – Improve Operational, security and business performance by gaining insights via continuous monitoring



Technologies: AWS, Jenkins, Microservices, SonarQube, SonarLint, Confluence, FishEye, 20 Crucible, Slack....

## **Continuous Integration**





## **CONTINUOUS TESTING**

Continuous Testing is a critical driver behind the effectiveness of DevSecOps by providing quality feedback continuously through every step of the SDLC to enable the team mitigate as many risks as possible early in the delivery cycle.



## SITE RELIABILITY ENGINEERING

**Disaster Recovery** 

Site Reliability Engineering is the practice of applying Software Engineering principles to automate operations and infrastructure processes to create highly reliable and scalable systems by making them observable. Observability is key to being able to fix potential problems proactively. This increases the stability and quality of service that a solution provides end users



# Pillar 3: Organize into product teams and apply team topology

Apply team topology to a product team design, identify and launch programs of teams driven by domain driven design boundaries

## Definition

"...the real breakthrough of object design comes when the code expresses the concepts of a model."

"Anyone responsible for changing code must learn to express a model through the code. Every developer must be involved in some level of discussion about the model and have contact with **domain experts**."

- Eric Evans, Domain-Driven Design









 Faster time to value through velocity stabilization and engineering excellence

Benefits

- Self-organize around creative and production goals
- Continuously innovate @ scale through podination (pollination of teams)

 Increase employee retention and experience

- Stream-aligned team organized around the flow of work and can deliver value directly to the customer or end user.
- Complicated subsystem team organized around specific subsystems requiring deep specialist skills and expertise.
- Platform team organized around developing and supporting platforms that provide services to other teams.
- Enabling team organized to assist other groups with specialized capabilities and help them become proficient in new technologies



© Matthew Skelton and Manuel Pais from Team Topologies



### **Key Pointers**

- Please use the provided handouts in your table to finalize the product teams for claim administration
- \* Apply team topologies to each product team and complete the team design
- 🕷 Show and Tell with workshop audience (2 min)



Time box : 10 min

# Client Story – Outcomes and Challenges

Large healthcare insurance payer business outcomes from product mindset and team topology applied



#### Instrumentation

From Excel to Jira Align Enterprise, Integrated JIRA, Agility Health Radar, TaskTop (Future state), Jenkins, Hygeia, developer productivity tools and plug-ins, cloud / microservice design patterns, SmartBear, Selenium, Jmeter, Fortio, ServiceMesh, Google Analytics

Key Takeaways ...

	Culture is the key – lead and live it every moment		
Define your target state – achieve goals in increment, measure with business outcome		Change is a journey and no destination – have patience	t a
	Flow, Feedback and Experiment	Learn from others and avoid waste	adopt and ensure consistency in practices

THANKS!

## Any questions?

## You can find us at:



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## Appendix

## ASPECTS OF PRODUCT CENTRIC DIMENSIONS



## Insurance operational value streams driven by domain driven design principles ....

		Vehicle Insurance			Property Insurance			Personal Insurance							
Business Value Delivery	Customer Value Streams	Auto M	Motorcycle	Boat	RV	Home Owners	Flood	Condo	Renters	Dental	Health	Vision	Pet	Life	Travel
	Shared Services Teams (examples)	Operation Excellence 13		Property Shared Services: Credit bureau			Medical Management					4			
		Customer Enga	agement	t 21					Personal S	nting					
		Vehicle Shared Letters, UX/UI	hicle Shared Services: Statements, tters, UX/UI, and batch jobs			Correspondence			Investment Operations Management					4	
		Business Proce	ess Manageme	ent		12			Policy & Contract Management					14	
		Policy & Billing and Remittance				18			Billing & Remittance and Claims					20	
		Claims & Reiml	bursements						15						
	Foundational / Enterprise Platforms	Sales & Distribution (Underwriting, Compensation, Client Acquisition and New Sales)											15		
Support Value enabling		Relationship Management (CRM, Desktop, Social, Mobile Apps)									7				
		Business Process Management									12				
	Support Functions	Accounting and Finance											11		
		Infrastructure & Cyber Security & Enterprise Architecture												35	
		Sourcing & Proc	curement		2	Real Est	ate Manageme	nt		3	T Risk Mana	agement			4
		Corporate Fun	ctions (Legal,	Audit and HR)											14
		Government &	Industry Rela	tions											10
						Т	eam Size								

## Once we have organized product teams, how do we launch them?

#### **First Business Backlog Stories** Define the MVP TDD/BDD led stories, CD delivery to production, 12 Identify and select MVP candidates, VSM Analysis, Assess factoring, Day 2 Ops toolchain, Pair Programming DevOps 24 capability AgilityHealth/DORA Enterprise DevOps MVP in Production stories assessment/Recommendations provided. Workshops First full cloud native app Current/Future. MVP Walkthrough in production produced by BLUE GREEN DEPLOYMENT IN The DORA Assessmen CD pipeline, practicing DevOps/Cloud Native PCF Team Final Week 0-? Week 1 Week 2 Week 3 Week 4 Week 6 Week 7 Week 8 Week 9 Week 5 Week 10 Readout & Next **MVP** Microservices in Production

#### Pre-flight checklist completion Recommendations regarding improvement opportunities and key priorities presented

Dojo Start – Product Team Readiness

Occupy dojo venue, workshops: PCF, TDD/BDD/CD, 12 factor, and DevOps Practices, baseline backlogs, refactor vs replatform on PCF, MVP teams learn to create CD pipelines, PCF deployment, DevOps toolchain, updated backlog, AC: skeletal CD pipeline Canary Release to Production

Showcase, Product release through CD pipeline with high quality/confidence, MTTR <1hr, Full CD replacement of legacy SDLC, Blue/green deployment





### Project mindset overview:

- The initial foundation is developed for North Carolina, which is the first state for Exchange expansion
- For the next set of states, a completely new plan-build-run lifecycle is identified with funding separately for each project
- When NC was first implemented, there was no vision to think of Exchange as a product and identify possible extensibilities to new states

### Key challenges with project mindset

Lacks customer centricity	Starts with only the project scope in mind as compared to establishing a long-term vision, strategy, and product roadmap
Lacks agility	Similar for each state/group; minimal time to market efficiencies achieved for new product releases
Lacks economies of scope	Minimal; Similar for each state/group; no cost efficiencies for new product releases
	Lacks customer centricity Lacks agility Lacks economies of scope

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Transitioning from a project to product-driven culture – adaptable, data driven, outcome focused

**The Project-Led Roadmap** 



- "The roadmap is perfect."
- "We'll hit business goals if we follow it."
- "The future is another team's problem."
- "Just point technologists in the right direction, check in when completed."

The Product-Led Roadmap



- "Decisions today should still work tomorrow"
- "Target business results, not specific features"
- "Data drives better predictions."
- "Short term outcomes <u>and</u> long-term outcomes."