

Attacking the Fuzzy-Front-End of Value Streams

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What is DXC Technology?



23,000+

Agile/DevOps practitioners and Digital Engineers



≛*250+

Scrum masters and Agile coaches additional SAFe certifications in FY19

14,000+

Cloud application migration per year



Industry
DevOps and
Agile
Leader



+0008

Trained architects and consultants



Partner

DXC is a Gold partner with scaled agile



~\$20B

global IT services leader



~138,000

employees worldwide



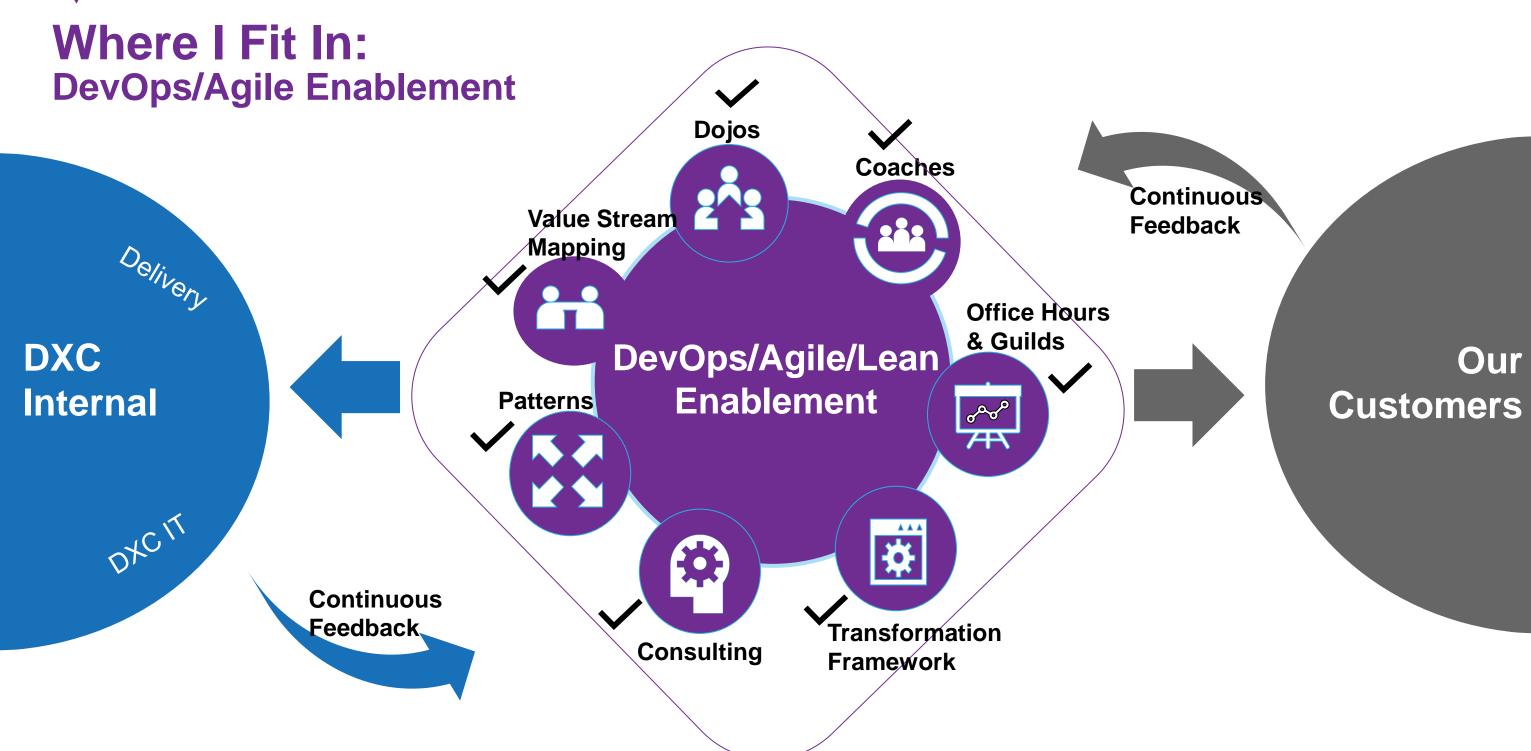
~6,000

Enterprise customers

200+ Fortune 500 companies



DXC is the only firm that has scored "Leader" in all Applications Development categories since inception of the ISG market survey.¹



Gene's Experience Report format

- My organization and the industry we compete in.
- •My role and where I fit in the organization.
- •The business problem that we needed to solve.
- •Where we started and why.
- •What we did, including tools and techniques.
- •The outcomes that resulted.
- •The challenges that still remain.

The business problem that we needed to solve







Started with a key internal platform app focused on managing master data across IT systems

Agile/DevOps Transformation Anti-Patterns

https://www.linkedin.com/pulse/digital-transformation-antipatterns-john-ediger



MODERNIZATION FOR MODERNIZATION SAKE

DevOps and Agile are means to an end, not goals themselves. Successful transformations Goals and outcome driven for targeted and measurable business results



BIG BANG TRANSFORMATIONS

Successful Agile and DevOps transformations are done "agile-ly" - iteratively with feedback loops and adjustments and value achieved continually



TECHNOLOGY & METHODOLOGY ONLY

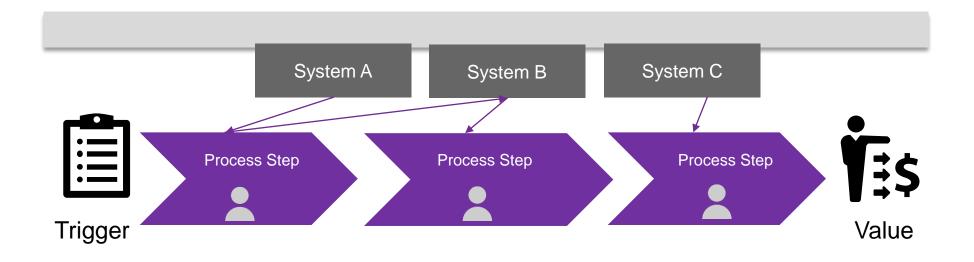
Successful transformations address the way teams work (culture), including ownership, kaizen model, team practices)

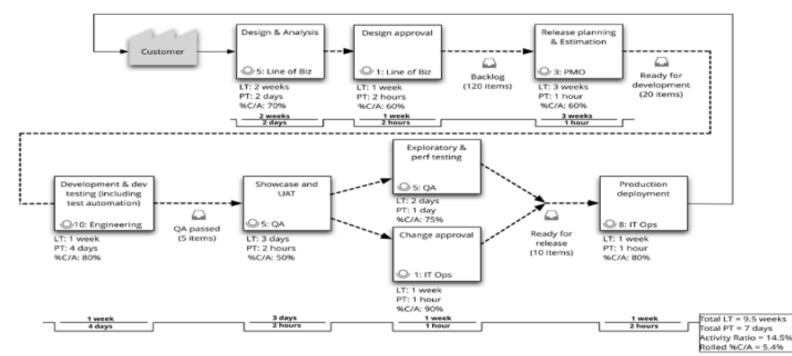


ONE SIZE FITS ALL

Successful transformations are Value Stream based (custom, team-owned implementation to address specific value-stream goals and bottlenecks)

Value Stream Mapping





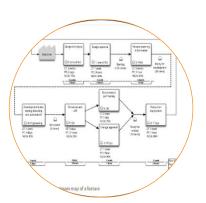
- Strategic, collaborative process to identify top improvement priorities
- Optimizes end-to-end flow of value
- Accelerates business outcomes
- Makes work visible and simplifies the process
- Focus on the customer and delivery of value

5-step Value Stream Mapping Workshop Process



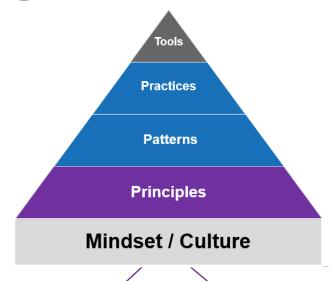
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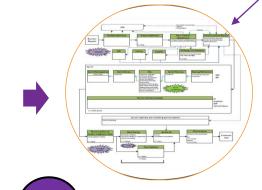
Couple weeks prior to workshop



Current State Value Stream Map

Created with cross functional end-to-end team identifying current steps, processes. measures & handoffs and identifying critical bottlenecks

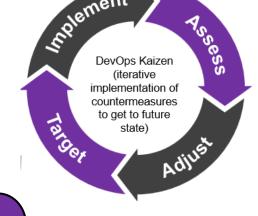




Future State Value Stream Map

Leveraging
Agile/DevOps/Lean
Principles, Patterns &
Practices





Continuous Transformation Execution

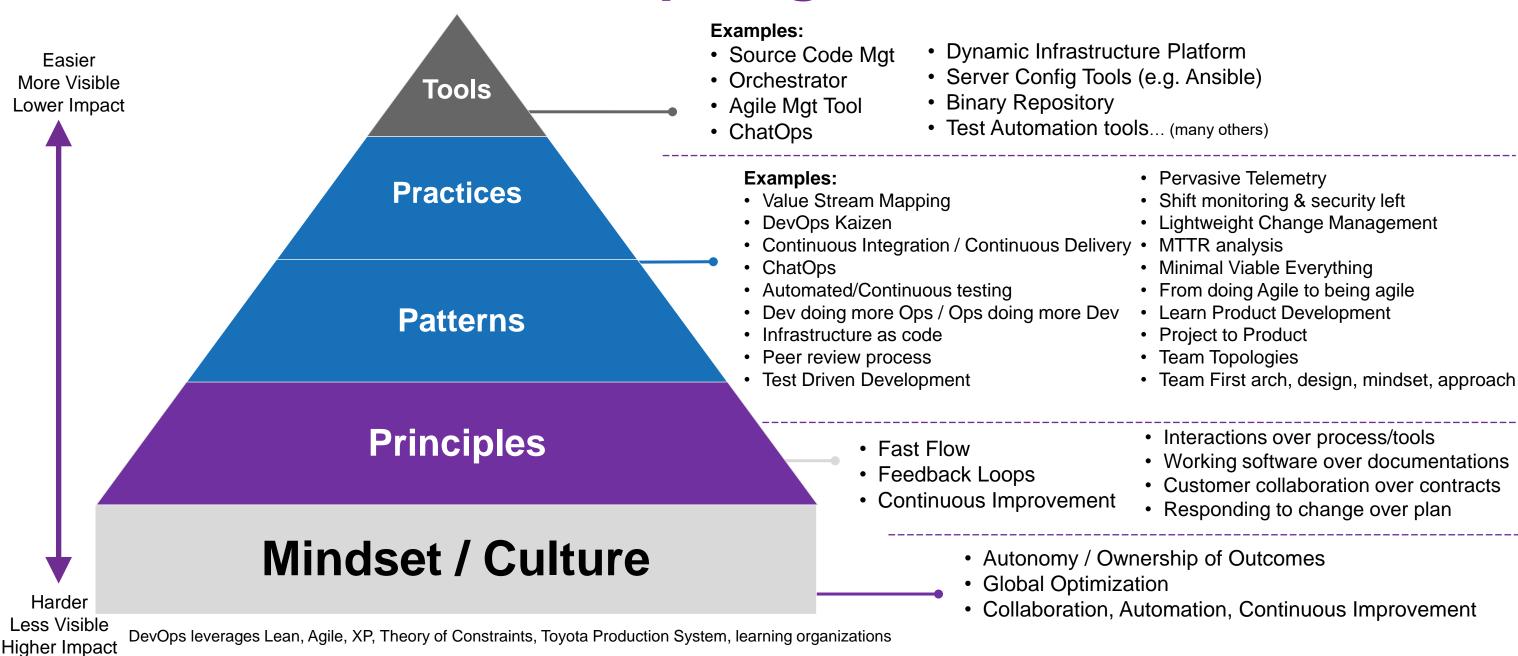
DevOps Kaizen leveraging DevOps/Agile enablement team, dojos, and/or other enablement capabilities

Continuously

Prioritized Improvement Backlog / Roadmap

Specific list of countermeasures/hypotheses to achieve targeted goals toward future state.

Holistic View of DevOps/Agile



Our Value Stream Charter

VSM workshop charter identified the key aspects of Data Management value stream, including:

- Current state process and problem identification
- Target conditions, with identifiable benefits
- Potential metrics and data to measure
- Scope, key boundary conditions and constraints, use case, trigger, first and last steps

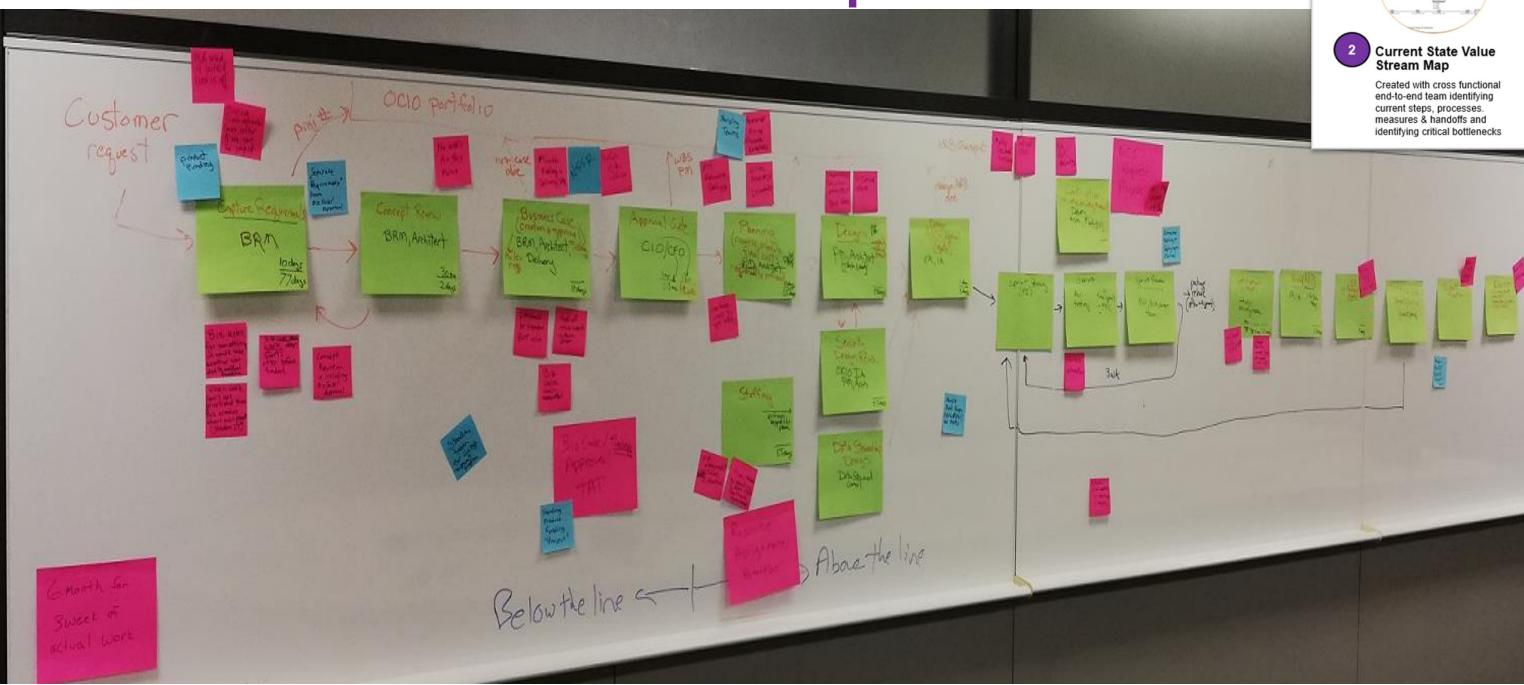
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Scope			ountable Pa			General Control of Con	Cal Second
Value Stream Data Management		Executive Sponsor	OCIO SI T		Ev l	Couple weeks	Angles Ka
Specific Conditions Specific Conditions Self service, and reporting data catalog automation.		Value Stream Beoisdf Rawerty		ty	prior to workshop		
Demand Rate How many requests (circle with Matt/Dan)		F 99			Base-camp		
Trigger New master data incorporation request from use	rs	Facilitator	John Ediger	John Ediger		Houston, TX	
First Step Architecture evaluates data incorporation reques	t	Logistics			Meals		
Last Step Move To Production and Handoff to support		Coordinator	Memebn Vimw	/og	Provided		
Boundaries & Activity funding and portfolio selection will not be Limitations addressed in the Value Stream		Briefing Attendees	** Yeka Ezoci	vc, Et0oiwi	Briefing		
Improvement 3 months (March 31st, 2020)		** required *optional	Yxjgkieo, Uxn	knv Rwqpwiks	Dates &Times	Hime: IHD	
Current State Problems & Business Needs				Mapping T	eam		
1 Extended approval process delays start and resource provisioning		Function		Name		Contact Information	
"Project" model leads to big bang releases at conclusion		1 Agile Coach		John Ediger			
3 Architectural and Security review are not "agile friendly"		2 Process Framework					
4 Losing experience and consistency because hire>release>hire cycle		3 Portfolio Scrum Master					
Communication issues from dev team to support to new dev team		4 Information Assurance/Cyber					
Measurable Target Condition		5 Architecture Review Board					
1 Create new OCIO agile process framework		6 Product Owner					
2 Migrate key OCIO projects from "Project" to "Product" Management		7 Scrum Master					
3 Pilot Product Management with OCIO Delivery Partners	8	8 Delivery Manager					
4 Provide iterative business value on a three weeks sprint cycle		MDM Delivery N	/lanager				
5 Provide agile environment role model for DXC external customers	10						
Benefits to Customers & Business				On-Call Su	pport		
1 Reduce time to deliver & increase quality		Function		Name		Contact Information	
2 Streamline Product development							
3 Minimize risk through reliable results	2						
4 Assess business value additions in small increments	3						
5 Improve consistency of product development, operation & support	4						
Relevant Data				Agreeme			
1 Time to deliver - measure requirement to production cycle time		Executive 9	Sponsor	Value Stream	Champion	Facilitator	
Process eficiency - measure process start to process end cycle time							

Template from the great Martin and Osterling book: Value Stream Mapping (ksmartin.com)

Charter

(Scope, Goals, Prep)

Current State Value Stream Map



Current State Value Stream Map

APPROVE

DESIGN (ARB)

ENTERPRISE

ARCH (EA),

INFORMATION ASSURANCE (IA)

Muddy

document

repository

1 DAY

3 DAYS

PROGRAM

INCREMENT

PLANNING (PI)

5M, PO,

DELIVERY

including

Business

Case

No available

WBS at this

SPRINT

SM,

DELIVERY

No full

resources

Resources

abruptly for escalations in

NCS

Request

process

3 WEEKS

3 WEEKS

automation

Align this

process

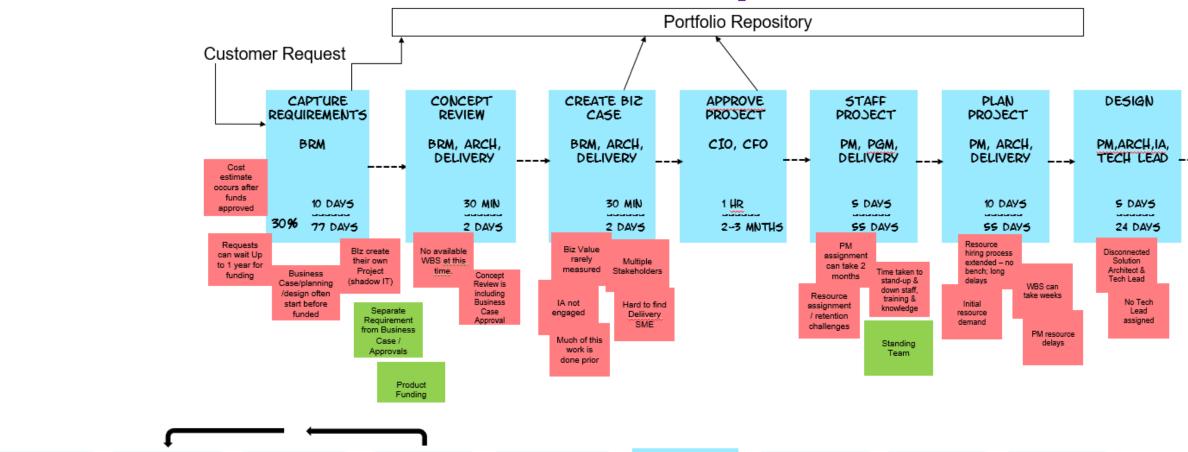
with audit

SPRINT

REVIEW

5M, PO, BO,

DELIVERY



CERTIFICATION

É ACCR (ANTIVIRUS É

SECURITY REVIEW)

ĪΑ

Not aligned

with Agile

2 DAYS

5-10 DAYS

Security

Services

(MSS) not

involved until

BUILD REVIEW

(ARB)

EA, IA

30 MIN

2-3 DAY5

OPERATIONAL

READINESS

REVEIRW (ORR)

PM, PGM

Hard to

identify a

Service

Manager

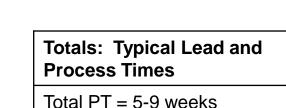
30 MIN

2-3 DAY5



Current State Value Stream Map

> Created with cross functional end-to-end team identifying current steps, processes. measures & handoffs and identifying critical bottlenecks



Total LT = 6+ months

SUPPORT

TRANSITION

DELIVERY

1 WEEK

1 MONTH

Difficulty in finding

Support Services

MTP

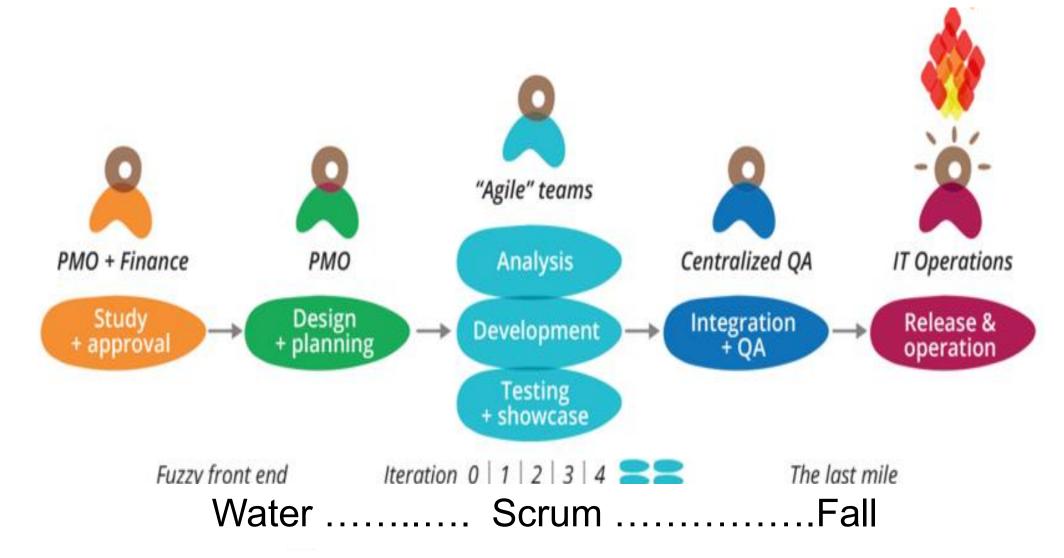
GO LIVE

30 MIN

0~2 WEEK5*

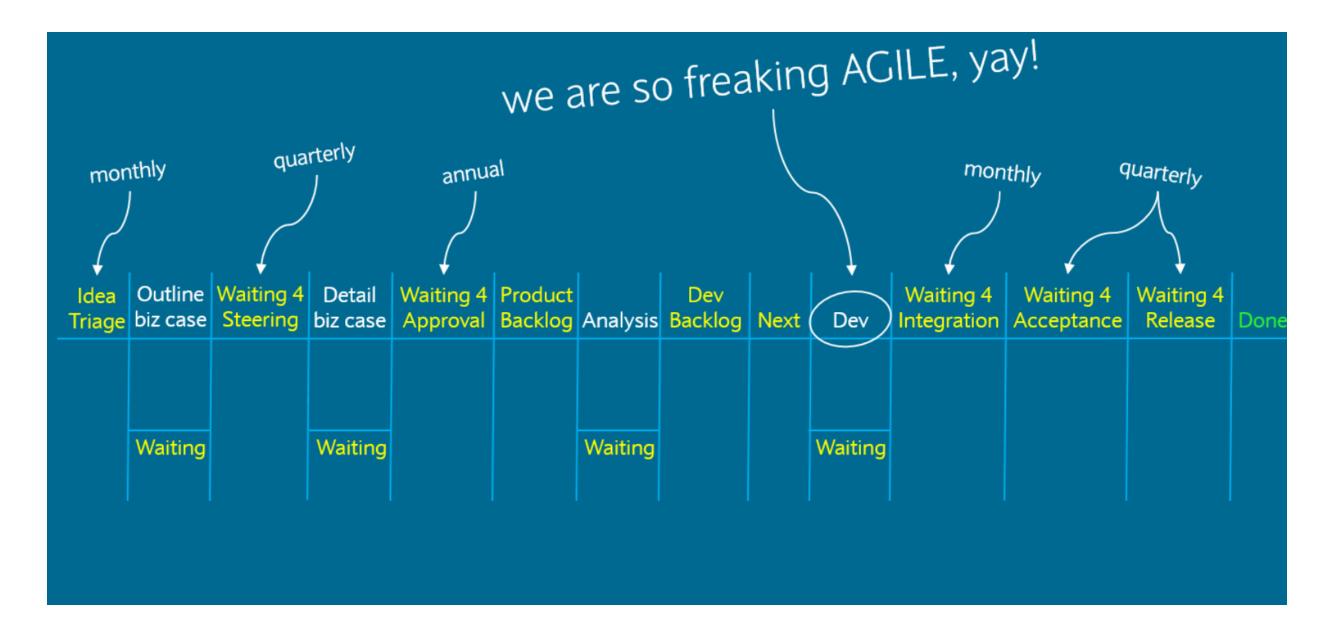
Variance based on black out periods

Typical Enterprise Agile Attempts



Source: "Lean Enterprise", Jez Humble, Joanne Molesky, Barry O'Reilly

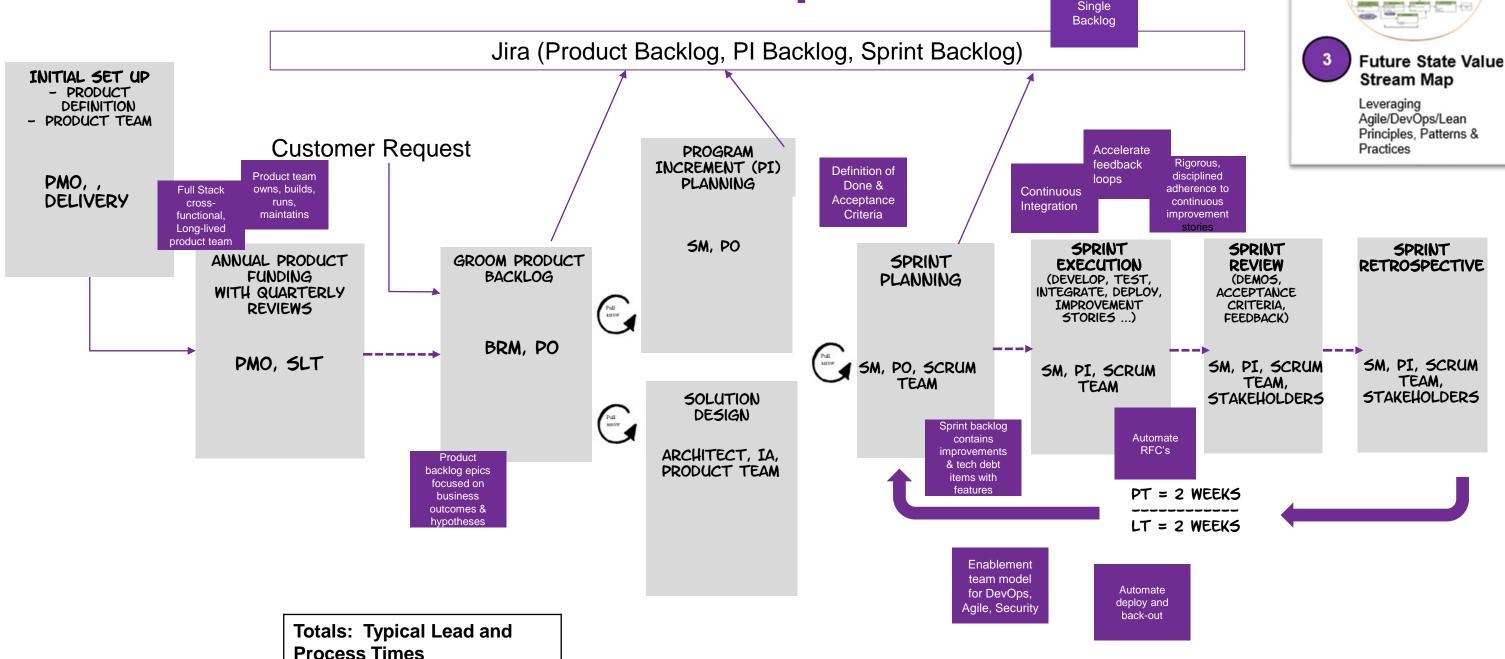
"Well OK, not really so agile I guess"



Future State Value Stream Map

Total PT = 5-9 weeks

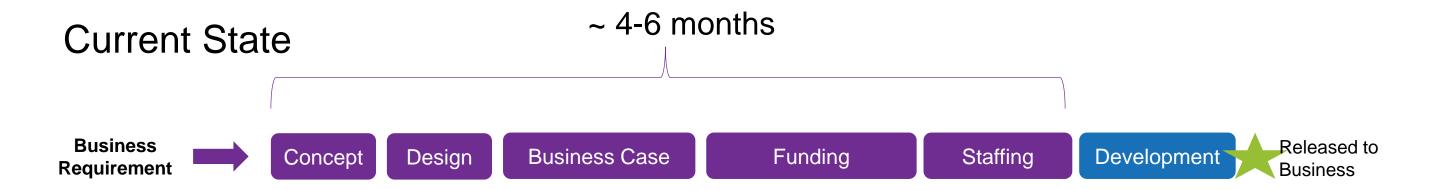
Total LT = 6-10 weeks



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Agile Product - Business Value Proposition

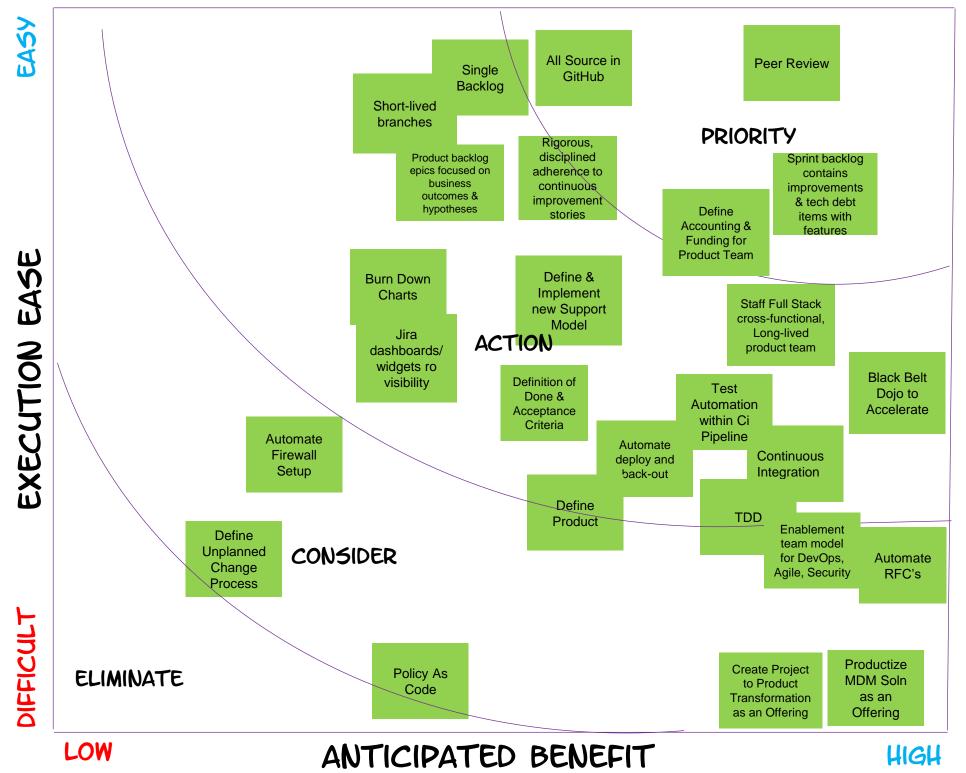




Business Value:

- Improved Quality and Outcomes from fast feedback loops
- Speed to market
- Consistency (non variable resources)
- Cost (non duplicative work with the business)
- Continuous Improvement of processes is "Built In"

*Faster over time





Specific list of countermeasures/hypotheses to achieve targeted goals toward future state.

Countermeasures to address top end-to-end Value Stream bottlenecks

- Project to Product
- Fake Agile to true agile
- Kaizen Process
- Shift to Git with peer reviews
- Test automation
- Automate Deployment
- True Continuous Integration
- Automate change management
- Test Driven Development

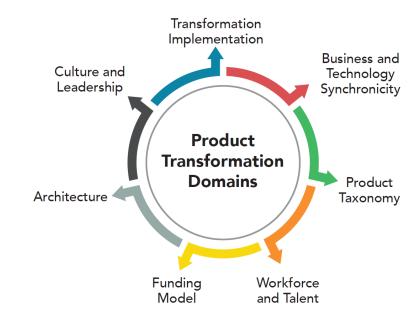


DevOps Kaizen leveraging DevOps/Agile enablement team, dojos, and/or other enablement capabilities

Project to Product Transformation

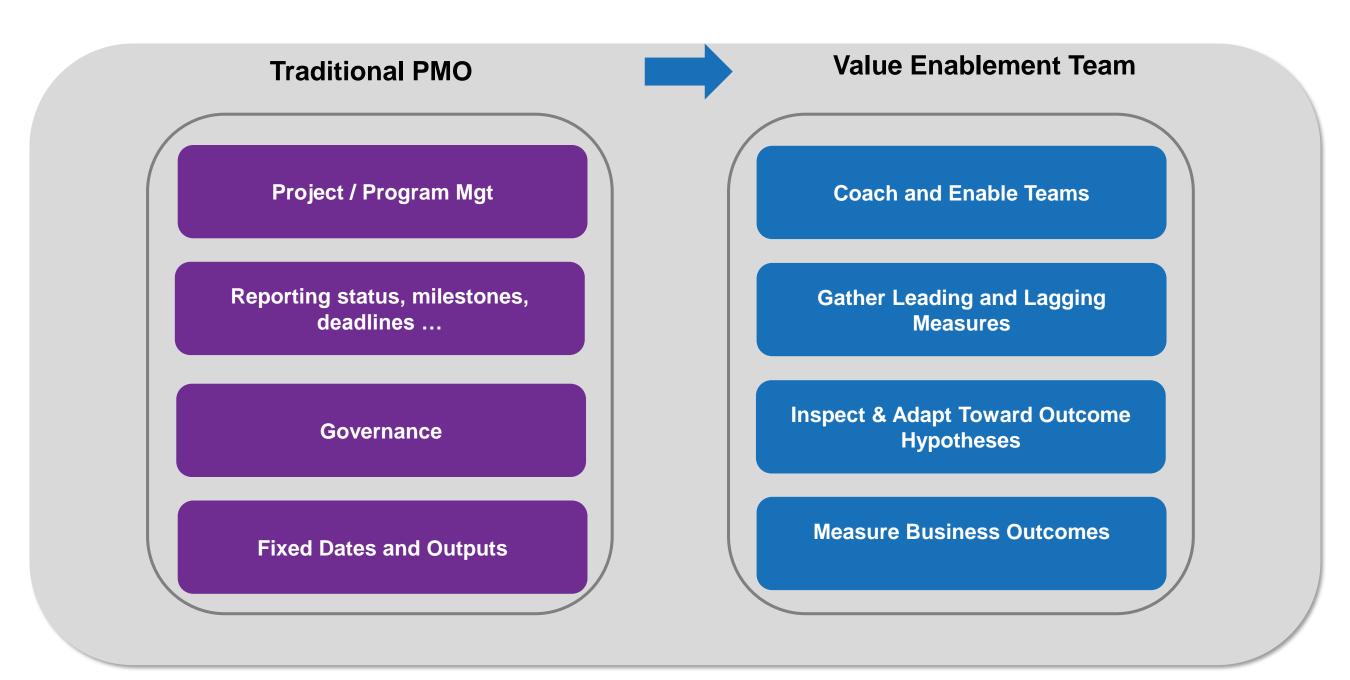
Success Patterns for Product Orientation

- Small cross-functional long-lived T-Shaped teams – properly resourced
- One backlog per product with PO as authoritative source of priorities
- Fixed funding with periodic reviews
- Leadership to honor the backlogs
- ✓ Pivot PMO Organization
- Clearly define product taxonomy aligned with value streams
- Shift from heavyweight PI planning to lighterweight model of PO's committing to quarterly OKR's
- Continuous Improvement of Taxonomy
- Use OKR's and hypotheses at executive level





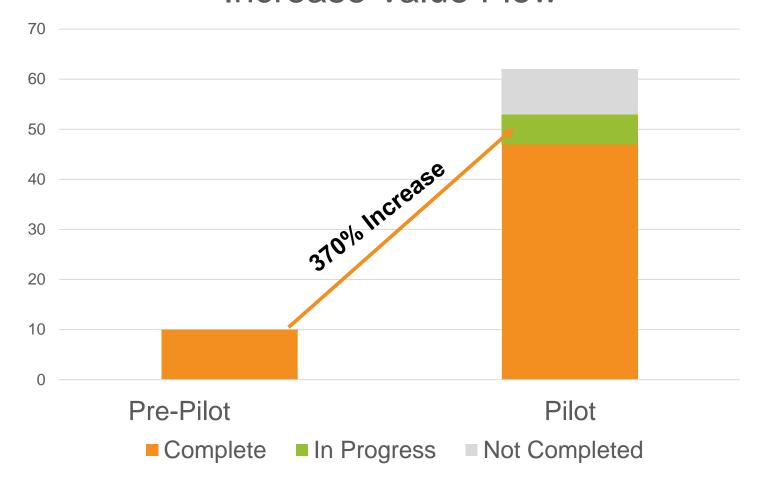
Pivot PMO

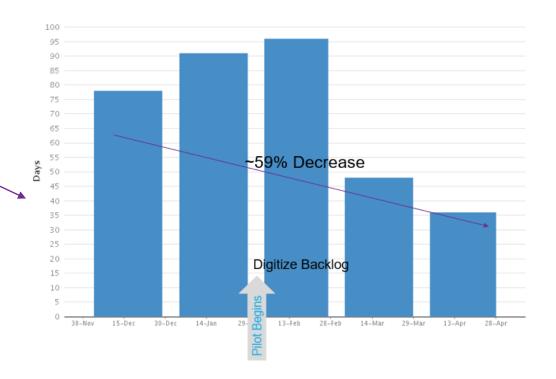


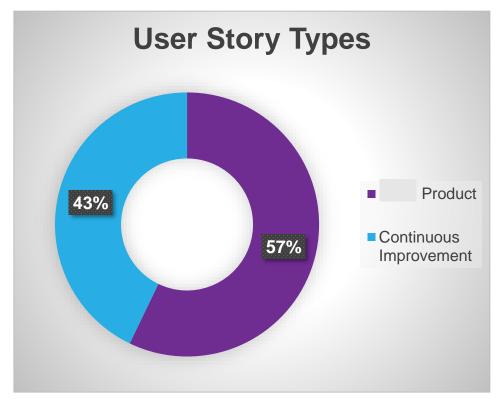
Resulting Outcomes

Resulting Outcomes
Over 50% Decreased Time to Delivery (down to 2 sprints)

Increase Value Flow



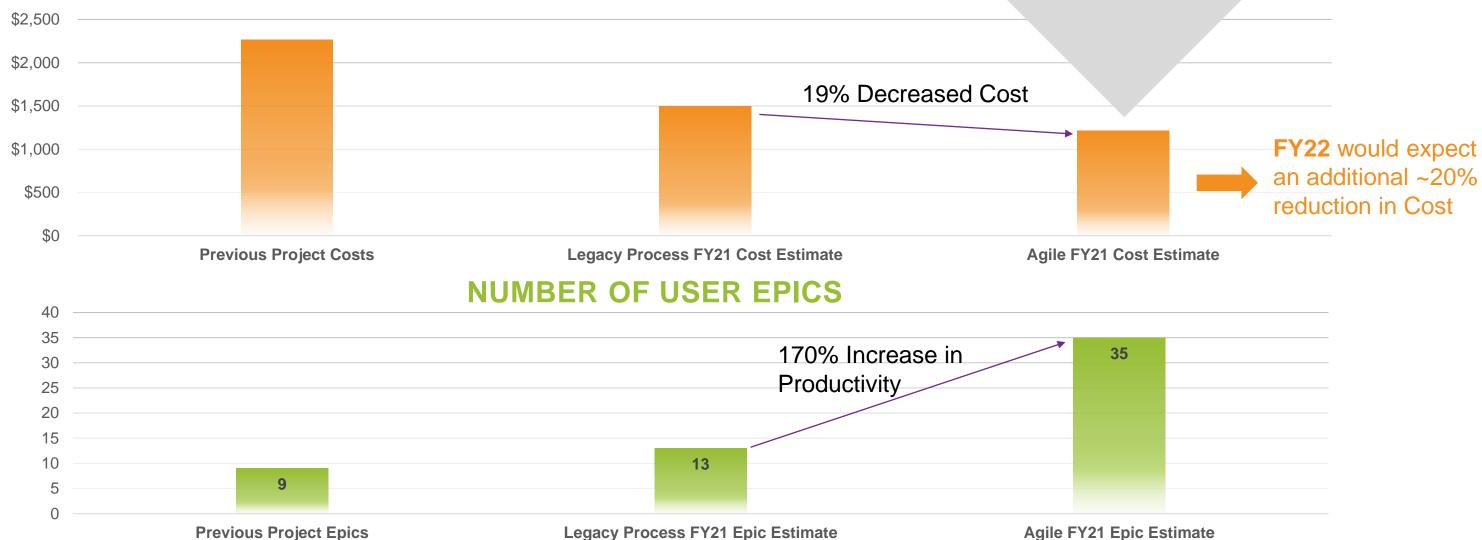




More Productivity at Less Cost

COST ESTIMATES* \$/K

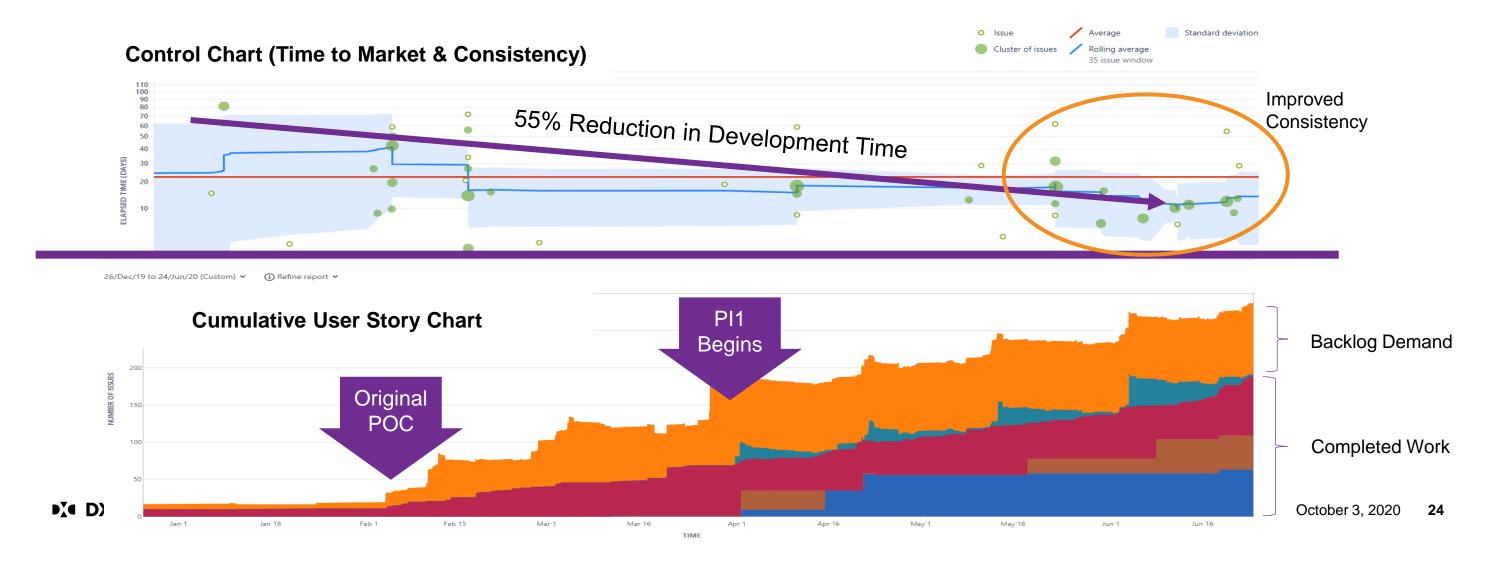




23

Velocity Increase

- Delivered twice as fast through 12 weeks
- Consistency vastly improved from beginning to end of Product Increment
- 15% Increase in User Story Delivery per sprint
- Meeting backlog demand



Continuous Improvement accounted for 16% of backlog items

Take-aways

- Not a one-size-fits-all endeavor (no standard DevOps or Agile implementations)
- Know the baseline, use hypotheses and focus on outcome measures
- Leadership engagement is critical
 - Some un-learning is required
 - Role change from deadlines and red-yellow-green status to continuous improvement, value streams, removal of impediments
 - Create the 'trusted system' with the conditions for continuous improvement
- Look at end-to-end agility (the fuzzy-front-end might be the biggest bottleneck)

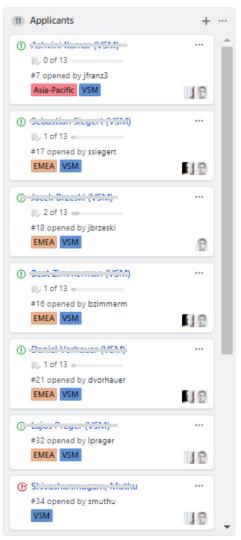
Value Stream Mapping is a means to an end

- The output is agreement and consensus from the cross-functional team of stakeholders on a transformational Improvement backlog. The mapping is a means to achieving this
- Don't fall in love with Value Stream Mapping, fall in love with continuous improvement
- Value Stream Maps are NOT meant to be cookie-cutter, standard processes
- It's about the whole team discovering and seeing, and then aligning on the way forward to better value delivery

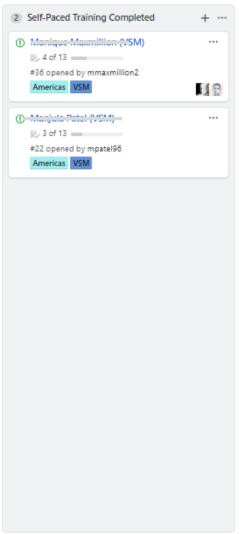


DevOps/Agile/Lean Coach Development

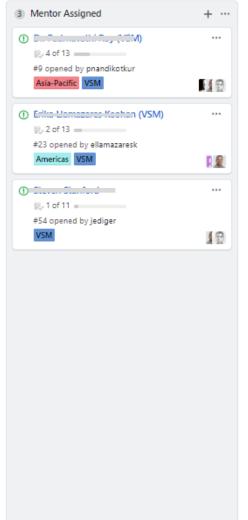
Applicants



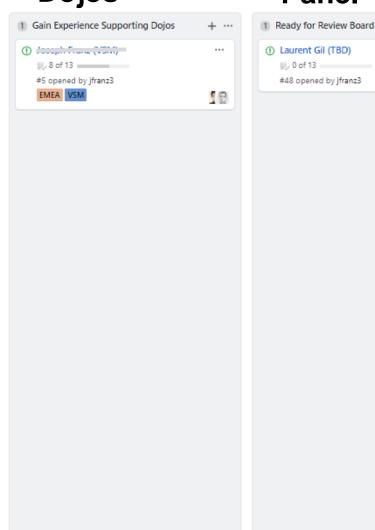
Training Completed



Mentor **Assigned**



Experience Supporting Dojos

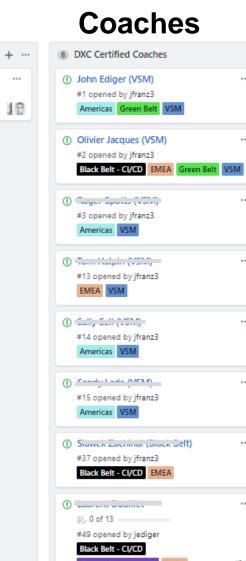


Ready for Review **Panel**

Laurent Gil (TBD)

#48 opened by jfranz3

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