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CEO Serpro Consulting & Agile Coach

















Byzan Systems

















The University Of Sheffield.







Client: UnboxRobotics Labs Private Limited

Associated industries: Warehouse Automation | Swarm Robotics | e-commerce | logistics

Series A = USD 7 Million

150-200 Employees | 3.5 Years old org

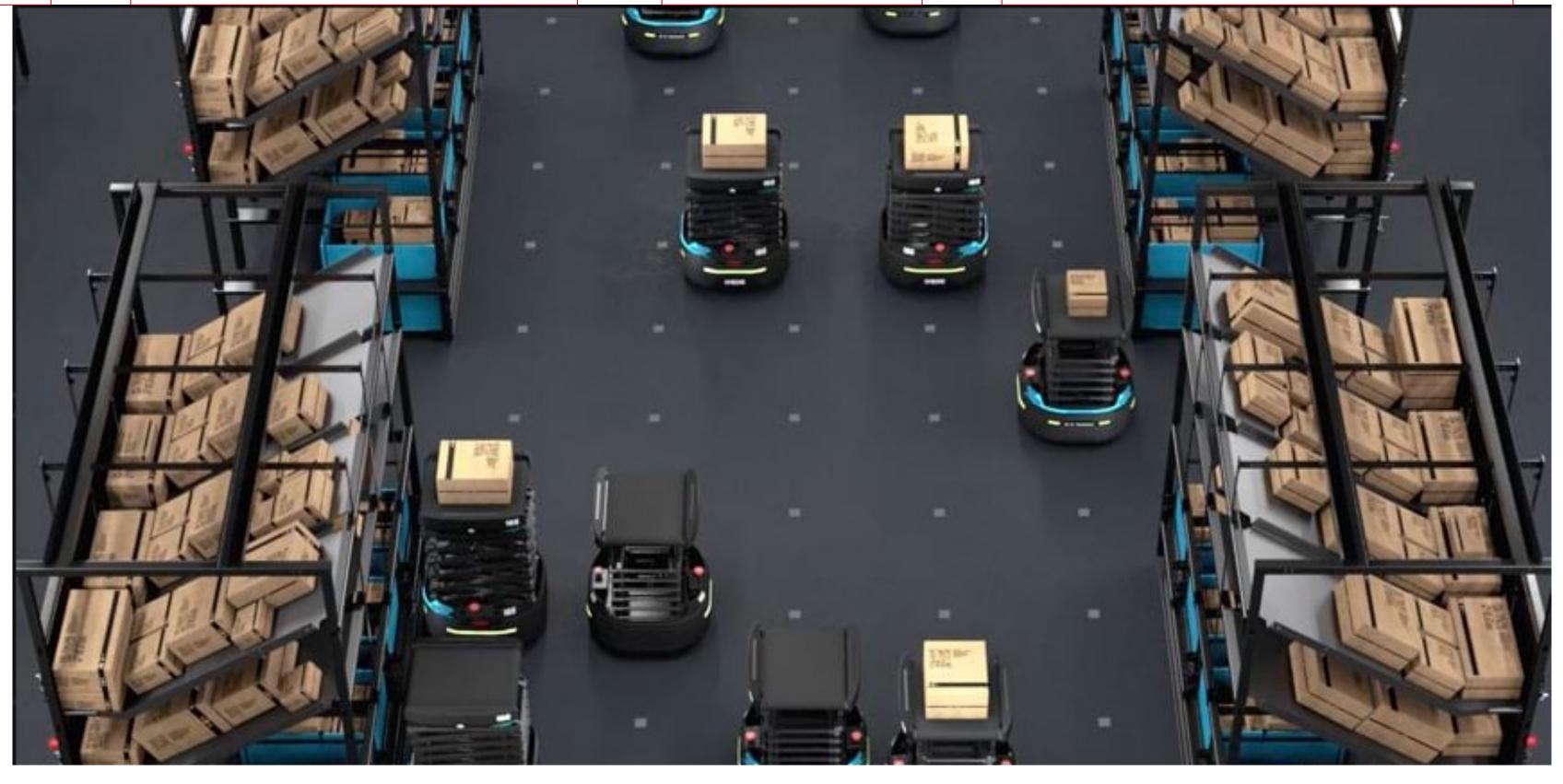
> 3X Productivity

99.9% Sorting Accuracy

2X Utilization

<2 Weeks Installation Time





<u>Images</u>

https://www.unboxrobotics.com/sorting-robots-in-express-logistics-industry-a-complete-guide/https://www.unboxrobotics.com/





Leadership's Mindset Is Key For Successful Transformations



Pramod Ghadge
Chief Executive Officer





Shahid Memon Chief Technology Officer





Rohit Pitale
Chief Product Officer





Prashant Adiyodi
Director of Engineering

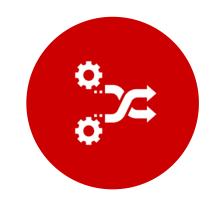






Transformation Goals

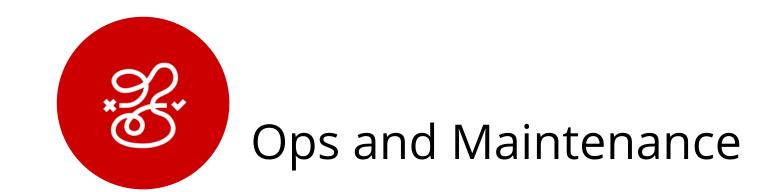




Vision, Alignment & Prioritization





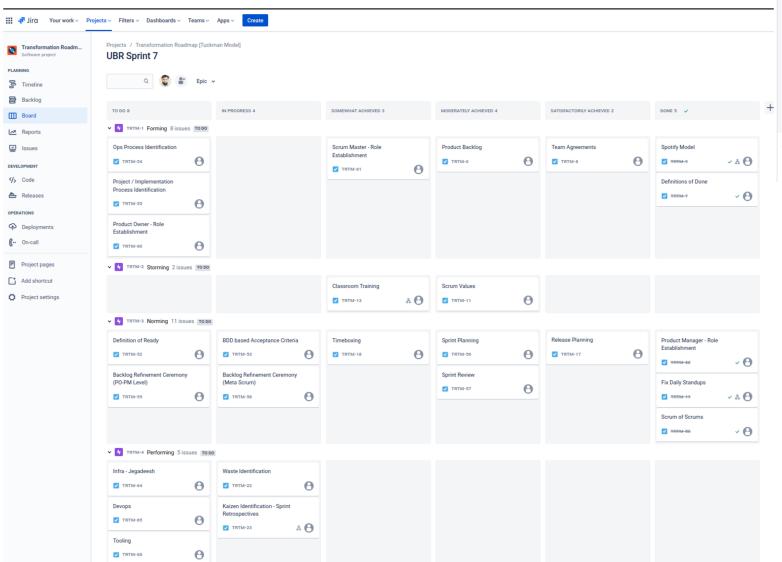


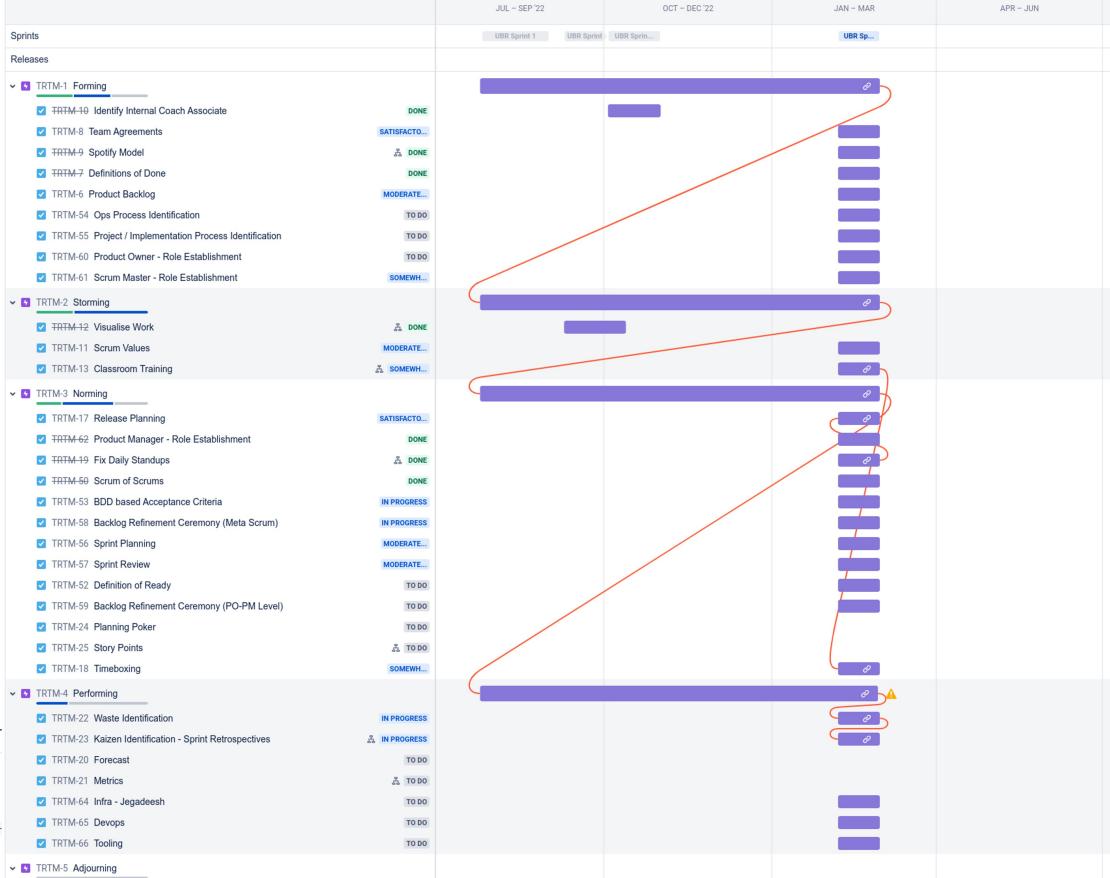
With Limited Time & Budget for Transformation Goals



Transformation Backlog - Tuckman Model







More on the Tuck Model:

✓ TRTM-51 Documention of Agile Transformation and Handbook

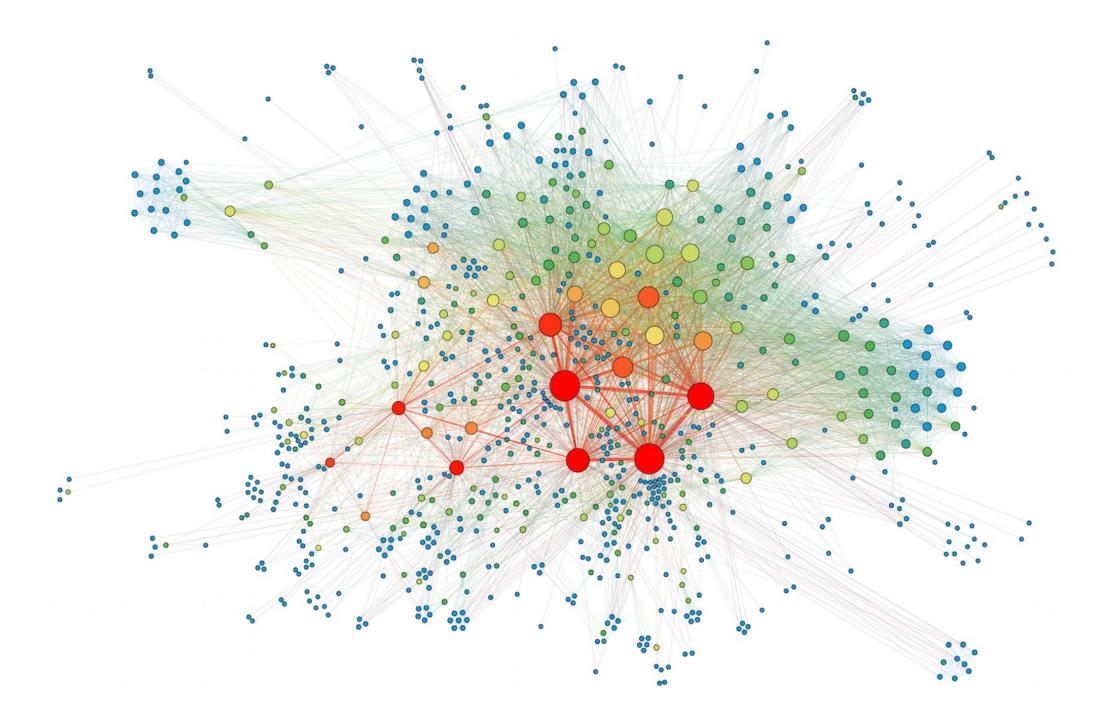
https://en.wikipedia.org/wiki/Tuckman%27s_stages_of_group_development

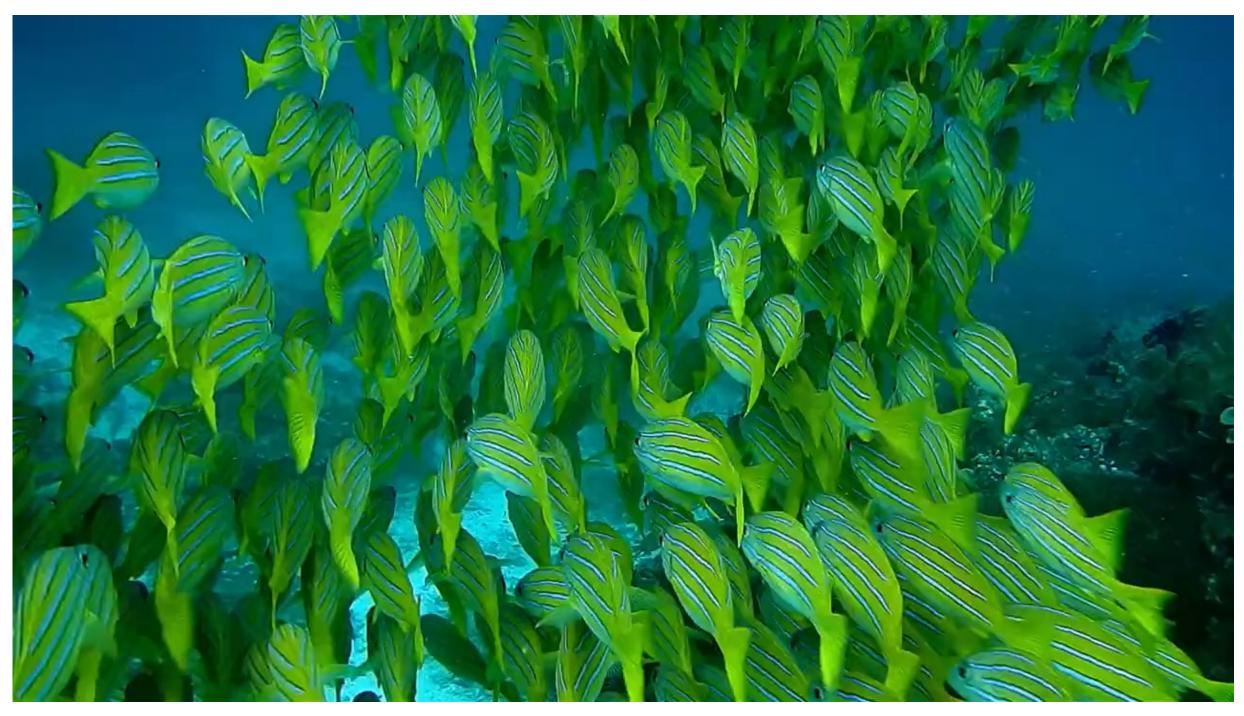






Complex Adaptive Systems View





https://youtu.be/nlK9lCojeCw?si=WeRmKSbn4_gw-jAj

ORGANIZATIONS AS COMPLEX SYSTEMS

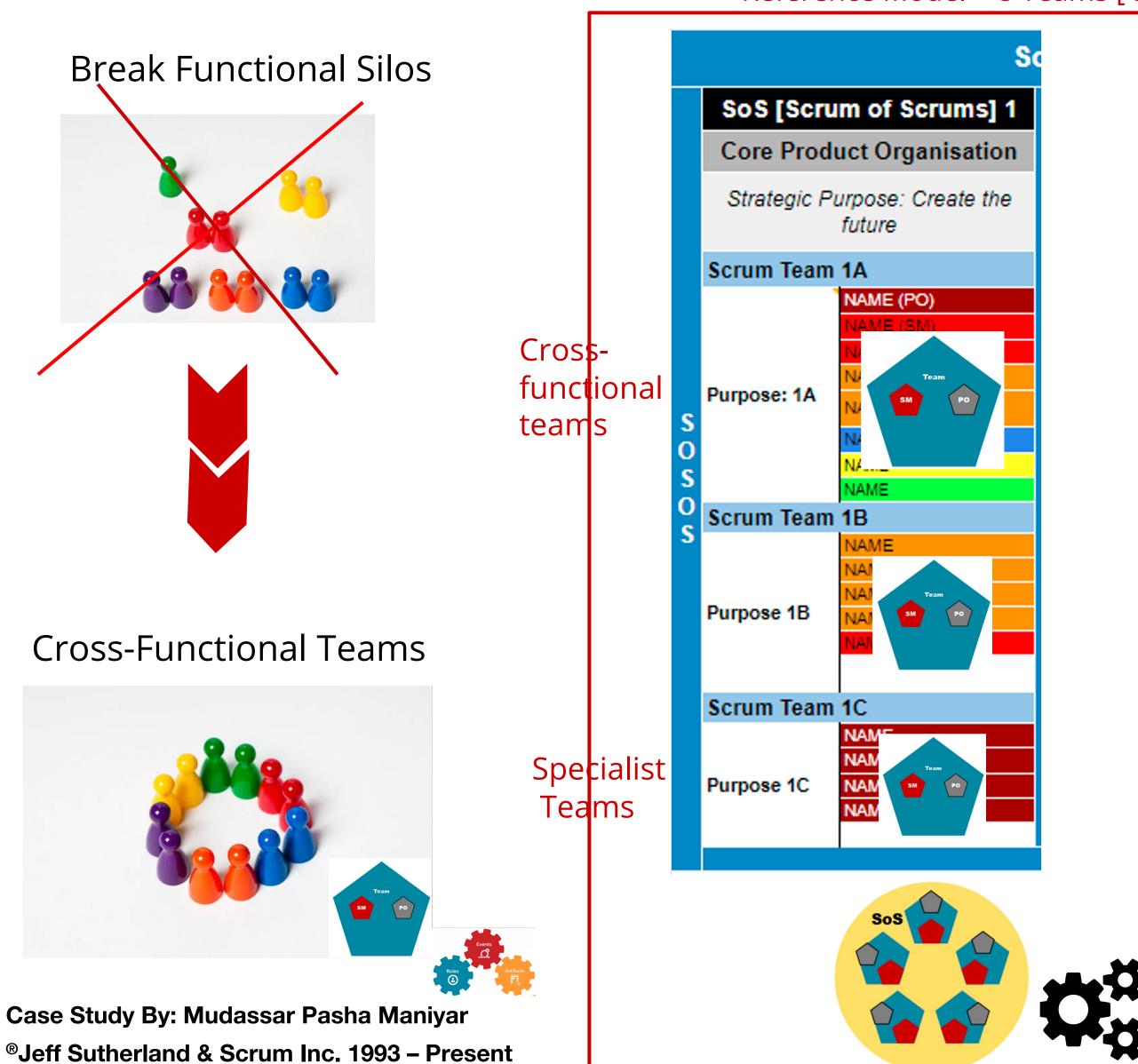
"In self-organizing systems order doesn't come from above or outside; it emerges from the interactions of the agents in the system."

https://enliveningedge.org/features/organizations-complex-systems/



Organizational Refactoring [Complex Adaptive Systems View]

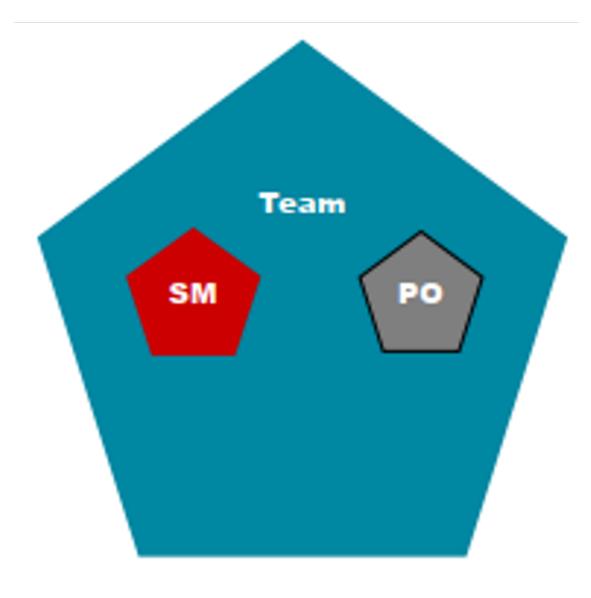
Reference Model = 8 Teams [5 Hardware based + 3 Software based





Team Process















Cross-Team Coordination

Team Backlogs

Specialist Team (Mechanical)

Specialist Team (Electronics)

Compliance heavy industry

Org-refactoring requires balancing the need for compliance vs advantages of autonomy

Scrum@Scale Principles = Yin Yang!

Scaled Daily Scrum Backlog (Cross-Team Impediments)

Cross-Functional

Software Product
Teams

Specialist Team

Simulation

Cross-Functional
Hardware Product
Teams



Case Study By: Mudassar Pasha Maniyar

®Jeff Sutherland & Scrum Inc. 1993 – Present

Alignment, Prioritization and Decomposition

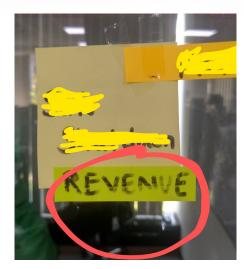
Alignment & Prioritization

- Meta Scrum and Executive Meta Scrum Events
- Internal Customers Defined Ops, Production, Procurement, Maintenance
- External Customers Defined Paying Customers
- Alignment across Internal/External Customers & Engg.

Decomposition

- User Story Mapping @ Scale as Shared Enterprise Backlog
- PRD (Product Requirements Document) per product
- Re-align and Re-prioritize via Meta Scrum & Executive Meta Scrum Events







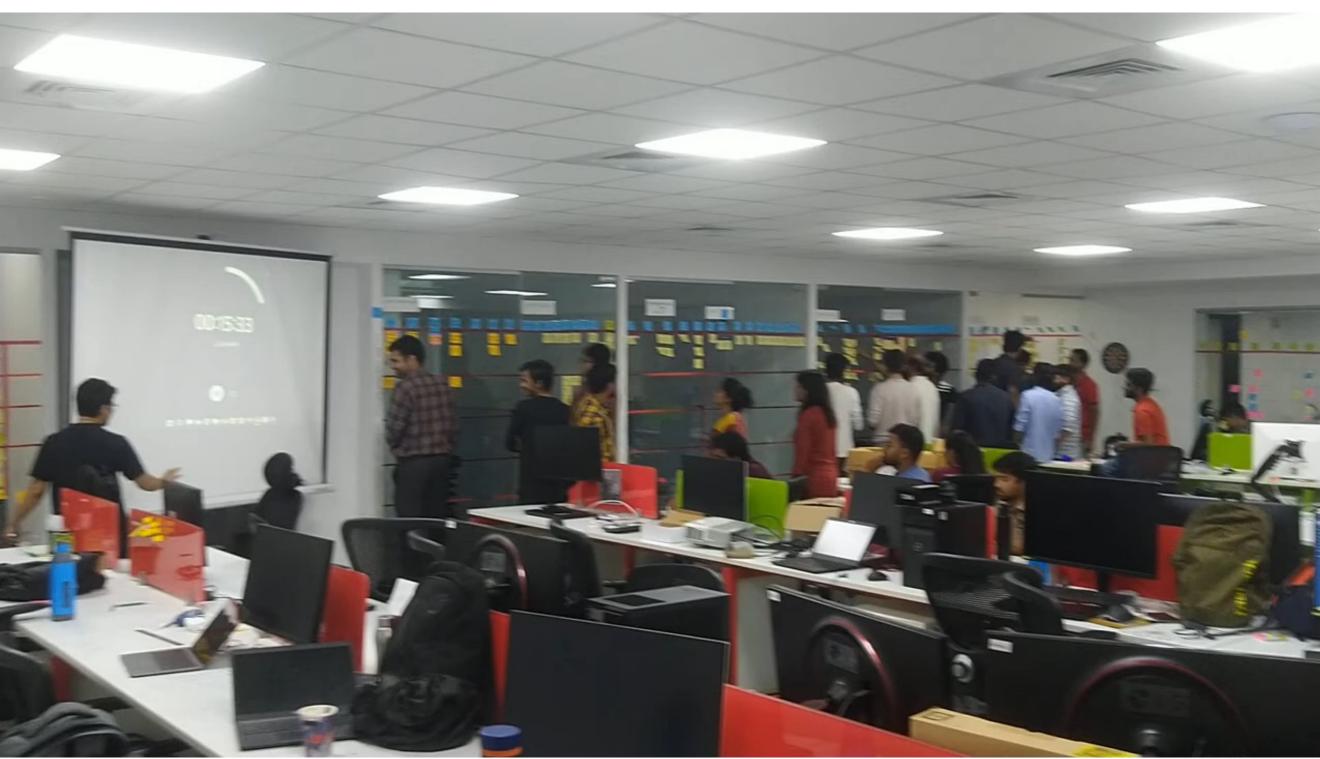


User Story Mapping @ Scale [Shared Enterprise Backlog]

"The new Product Backlog is a Map"

- Jeff Patton









SOSOS, LAT [Leadership Action Team] & EAT [Executive Action Team]

 EAT accountabilities were facilitated at the SoSoS level within the Reference Model.

S@S Reference Model:

Business Agility

Agile practice and transformation strategy

Other Change Initiates

ECN, UUOP, SLAs, QI Plans, I&A

OKR Facilitation

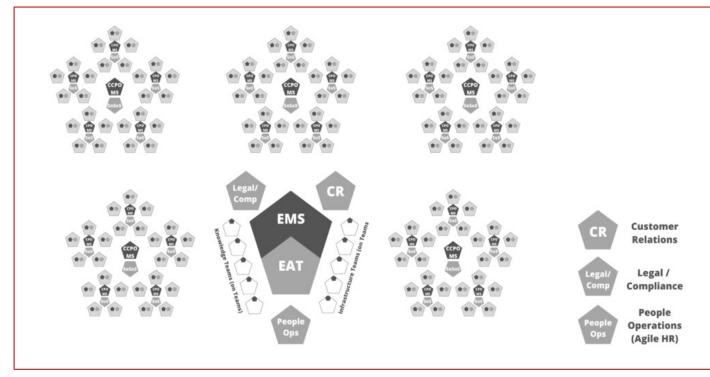
• Alignment on Governance & Compliances

ISO, GDPR, Quality

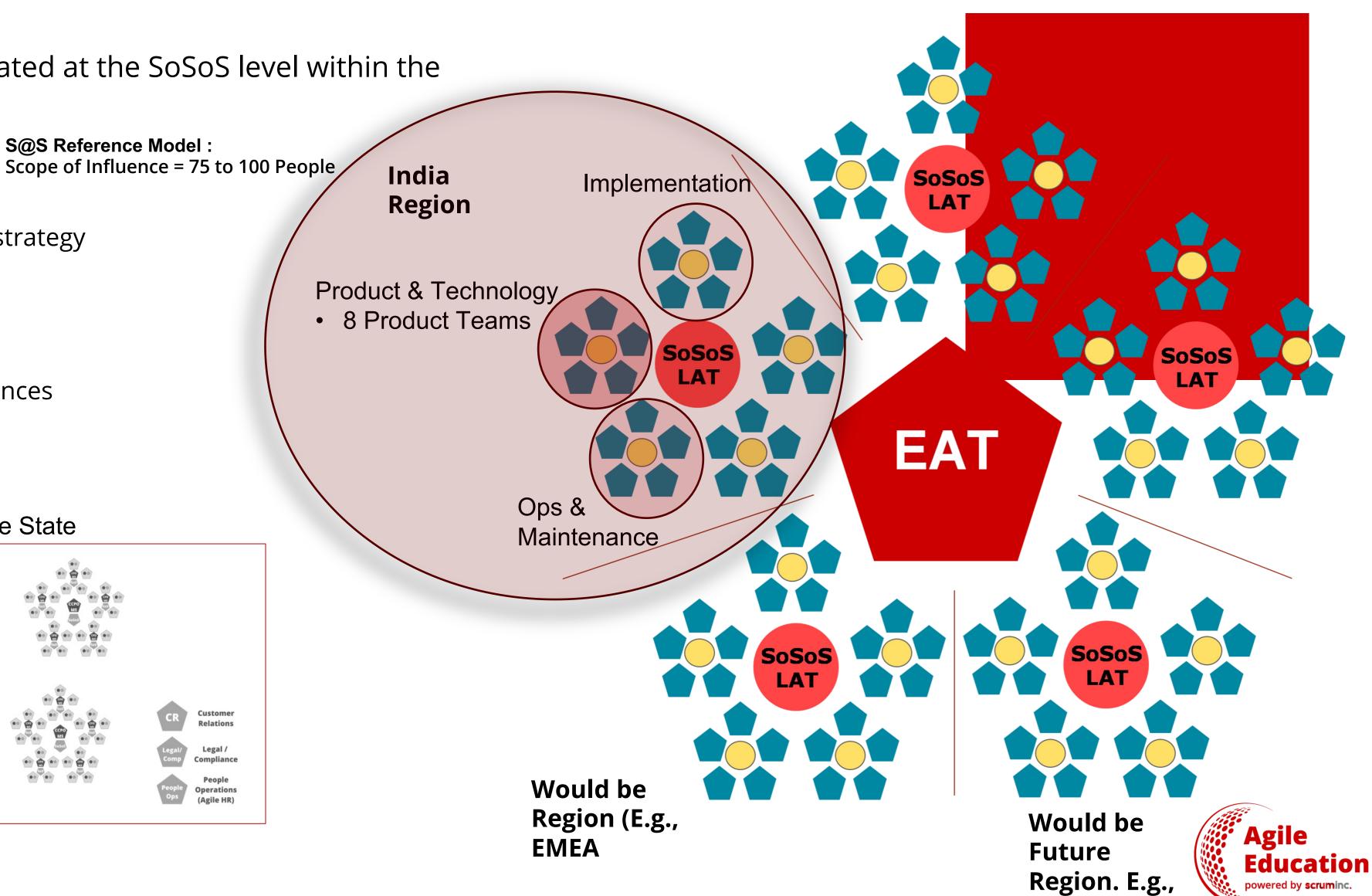
Enterprise IT

etc

Path to Future State



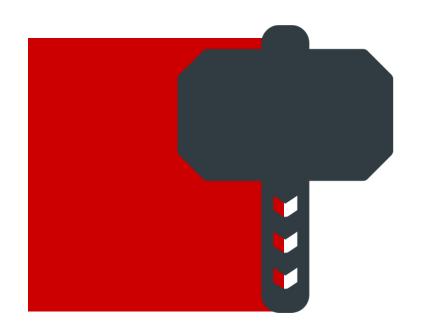
Case Study By: Mudassar Pasha Maniyar [®]Jeff Sutherland & Scrum Inc. 1993 – Present



EU

Transformation Challenges







Paralysis by Analysis

Solution: Culture of Experimentation

Tooling Strategy

Solution: Let workers pick their tools

Individual Learning and Development

Solution: L&D Roadmap for HR with ScrumInc



Impact: Direct and Indirect Impacts Considered

- Engineering investment saved by 25%
- Fulltime management to 60% time saving for leadership to focus on future state
- Speed-to-market: Started later than competition but now a leader
- Major shipment of the product shipped out to for a tradeshow abroad
- 5x revenue booked within 12 months of transformation engagement

Disclaimer: The Agile transformation does not single handled take credit for the impact as there were multiple change initiatives in the organization – Also, direct impact was hard to quantify in this case, especially given the transformation did not include digital tooling for most part and since the company itself was in its nascent stages of entering the market



Key Takeaways - Scrum@Scale as CAS [Complex Adaptive System]

Scrum@Scale allows emergent order like a CAS!

Evidence of

- Accelerated Value Delivery
- Unlocks Business Agility
- Early Impediment Resolution

Through addressing

- Structure
- System
- Culture

Org design in the modern business climate:

- Complex Adaptive System View
- Pivot, Persevere to Prosper Fast, *Continuously*



Thank You

Questions?

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