

Need for Ambidexterity for Business Transformation in HAL – An Empirical Analysis

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Agenda

Introduction

Analysis of the Indian Aerospace industry

Defining VUCA – in general & in A&D

Strategising in a VUCA world- HAL's Perspective

Project management approach to develop Ambidexterity in HAL

Success story: Development of Indigenous trainer aircraft HTT-40

Concepts and Lessons for the future

Conclusion

Analysis of the Indian Aerospace industry



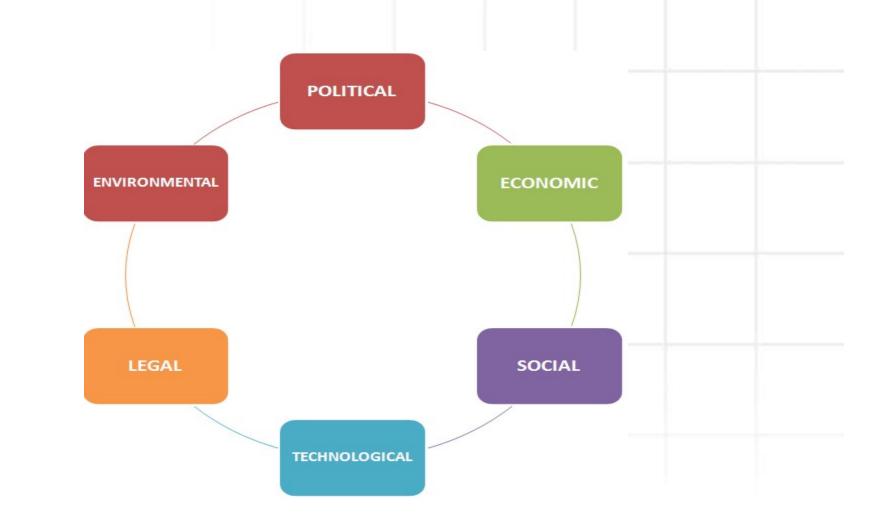
- Manufacturing base
- Trained Manpower

- Lack of Collaborative Supply Chain
- Gap In Technical Capability & Current R&D Situation
- Poor Stakeholder Management
- Less Synergy In Industry-Academia
- Absence Of Lead Industry Trainers & Lack Of Trg. & Certifications For Aerospace Professionals

Defining VUCA

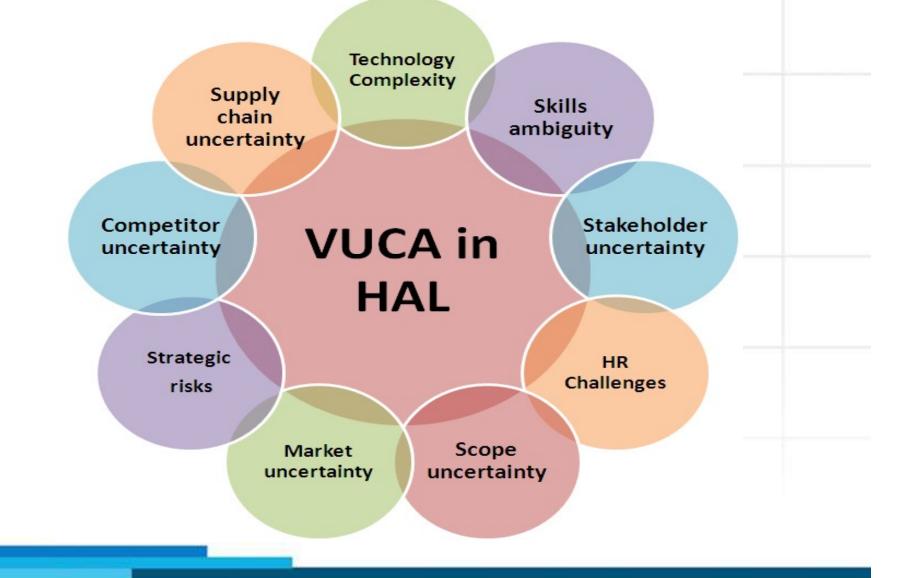
	DRIVERS	EFFECTS	DEMANDS
Volatility	 Change nature Change dynamics Change rate and speed 	 Risk Instability Flux 	VISION Take actions Probe changes
Uncertainty	 Unpredictability Potential surprises Unpredictable outcomes 	 Direction paralysis due to information overload 	UNDERSTANDING Wider understanding Different perspectives
Complexity	 Task co-relation Multifaceted effects Influencers 	 Unproductive Dualities 	CLARITY •Key focus •Flexible •Creative
Ambiguity	 Ideal vs actual Misinterpretation 	 Induce doubt and distrust Lapses in decision making Hurt innovations 	AGILITY Decision making Innovation

VUCA in A&D – PESTLE ANALYSIS



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VUCA in A&D - HAL



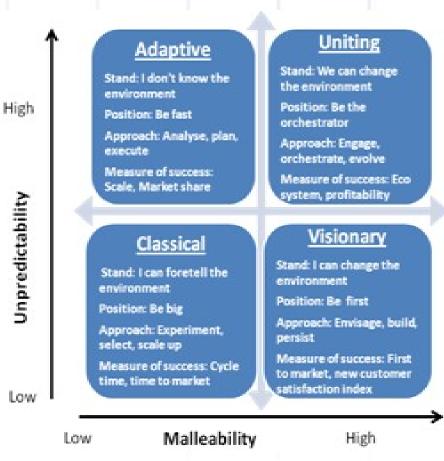
Strategising in a VUCA world - HAL's Perspective

Strategic foresights and frameworks:

- Classical Assumptions are: Environment is a given and future is predictable
- Anticipatory approach
- Collaborative approach
- Adaptive approach

Most effective VUCA breakthrough strategy:

 Predicting & Leading 'VUCA', Anticipatory planning, Strategic foresight, Foretelling 'black swan' events





Project management approach to develop Ambidexterity in HAL

- Early and deep stakeholder engagement mitigating
 - Supply chain uncertainty
 - Technology complexity
 - Industry Academia collaboration
 - Skills ambiguity
 - Competitor uncertainty
- Strategic Risk management
 - Market risk mitigation by investing in UAVs & using back casting tool
 - Technology risk mitigation through open system architecture
- Scope management and assumptions analysis
- Robust change management processes
- HR management Creating a 'Learning organisation'





Success story: Development of Indigenous trainer aircraft HTT-40

HTT-40 – Basic trainer aircraft

- Program that follows 'Project orgn structure' within a functional orgn
- Milestone Inaugural flight on June 17, 2016
- Prototype flown within 1 year of detailed design phase that was completed in May 2015
- Proves effectiveness of leading VUCA, embracing ambidexterity by weaving projectised approach within a functional organisation making structural, cultural and strategic changes



Success story: Implementing ambidexterity strategies in HTT-40

Ambidextrous strategies adopted

- Strengthening supply chain through procurement of common systems across platforms like LCA
- Experience team lead by a PMI-certified Project manager
- Team handpicked by top mgmt with average age <35
- Specifications decided by HAL mitigating competitor uncertainty
- Scope management and change management effective as trainer is a made-to market model
- Technology risk Engine unavailability mitigated by flying prototype with CAT-B



Concepts and Lessons for the future

- Breakthrough strategy Not faster response or agility but Anticipating the stimulus, anticipatory planning and foretelling the 'black swan event'
- Focus on strategic human resource management and keeping pace with rapid technology advancement
- HAL's success behind HTT-40 Program Projectised approach within a functional organisation making structural, cultural and strategic changes
- Proposed strategic foresight and project management approach – effective for a Business Transformation!

Conclusion – Key takeaways



Need for foretelling 'black swan' event & *leading the VUCA*



Encouraging 'Ambidextrous', 'Collaborative' & 'Anticipatory' attitudes in business strategy



Creation of a Learning organisation



Strategic foresight and project management approach



Embracing 'ambidexterity' - a panache to create a better response to VUCA

NOTHING HAPPENS until the pain of REMAINING THE SAME OUTWEIGHS the pain of CHANGE.

~ Arthur Burt

