

Al in Platforms and Sustainability-driven GVCs

Open Vs Closed Platform and Al

- Purpose and Boundary
- How do we determine home and host context?
- How cultures affect interactions or perceptions in virtual reality experience (3D)?
- e.g. Metaverse

Why Platforms?

- Virtual Space for transactions and value creation
- Information sharing and Intelligent decision making
- Co-construction of values
- Higher predictability and efficiency
- Higher level of customization
- Pure Service Vs Product-based Platform and GVCs
- Sustainability Logics drive Platforms in GVCs (i.e. economic, social, environmental)
- Underlying tool for decision making in Platform-system is Al

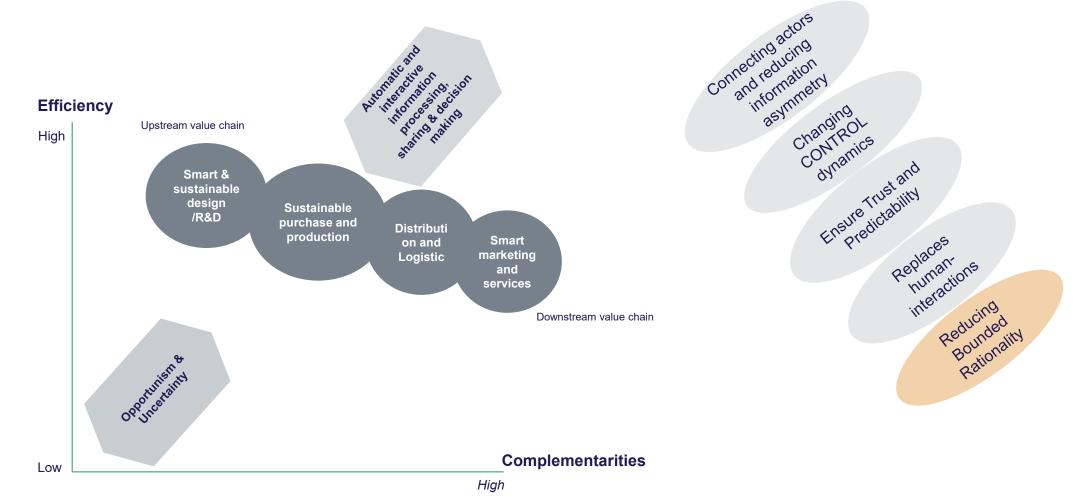








Al underpinning Platform-systems and its Impact on GVCs?





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CASE: VILUX, Closed-Platform of GVCs Al in Sustainability-driven GVCs

- Sensing the changes more accurately and in real-time
- Connecting multiple actors across GVCs and demand and supply side activities
- Reducing time-loss, operational loss, and wastage (i.e. raw materials)
- Save energy and water consumption
- Optimize efficiency (production) and interdependent value creation
- Efficient coordination of activities and high trust





CASE: VILUX Al in Sustainabilitydriven GVCs

- Al-driven decisions on routine tasks save time and avoid human-complexity
- Shared governance and shared-responsibility due to information sharing
- Empowering all value chain actors (i.e. buyers and suppliers) in GVCs
- Downstream and Upstream activities can be linked & data-driven
- Measuring environmental sustainability becomes accurate and strategic

(CO2, water-consumption, wastage)





Issues related to AI-Based Platforms in the context of GVCs?

- Data Privacy and data sharing for organisations and individuals
- Technical knowledge and Adaptation of GVC partners to use the Al-Platform
- Managerial and entrepreneurial desire to change and leave partial authority to Al-based decision making. (i.e. Governance issue)
- Digital infrastructure of Value chain partners or their countries may not be ready to adapt
- Changing customers mindset and habit
- Ability to reskill manpower's and the concern for layoff
- Security and control over data and AI, and the trust issues
- Ethical concerns mostly lie on downstream value chains, i.e. consumers with non-rational value proposition (i.e. Anxiety, distress, privacy)



