

Future Proofing the Aerospace Supply Chain

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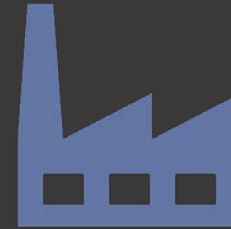
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Needs Assessment from New Entrants



Many calls, texts, and interactions about looking for suppliers and manufacturers

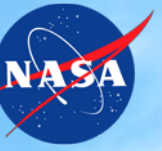
- Over-molding
- Actuators
- Electric motors
- Propellers
- Casting
- Many other components and manufacturing needs



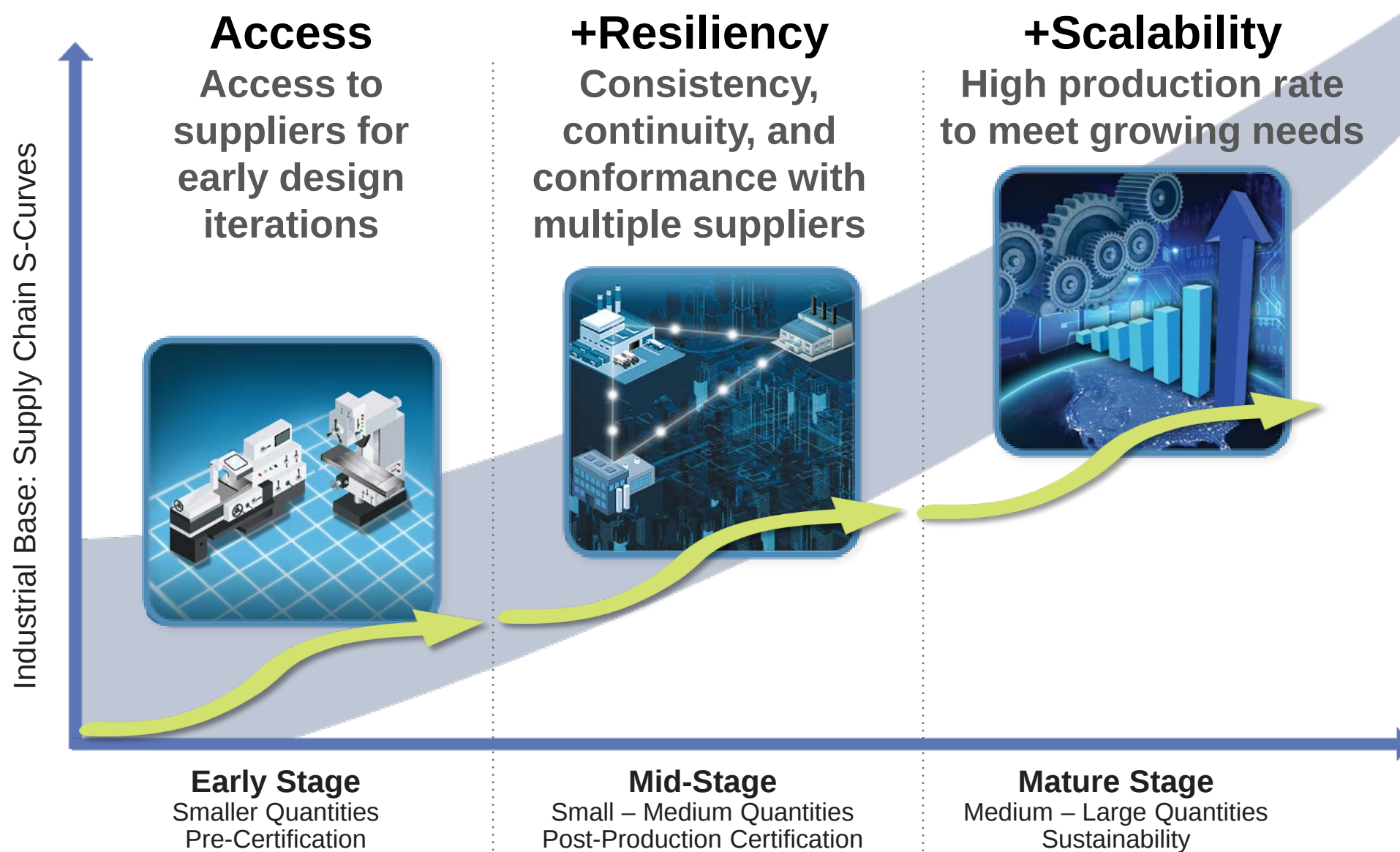
Aerospace Needs Sustainable Supplier, Manufacturer, and MRO Network

Challenges and Opportunities

- Environmental footprint
- Aircraft development cycle
- Aircraft production rate
- Supply chain resiliency



Supply Chain Readiness and Maturity S-Curves

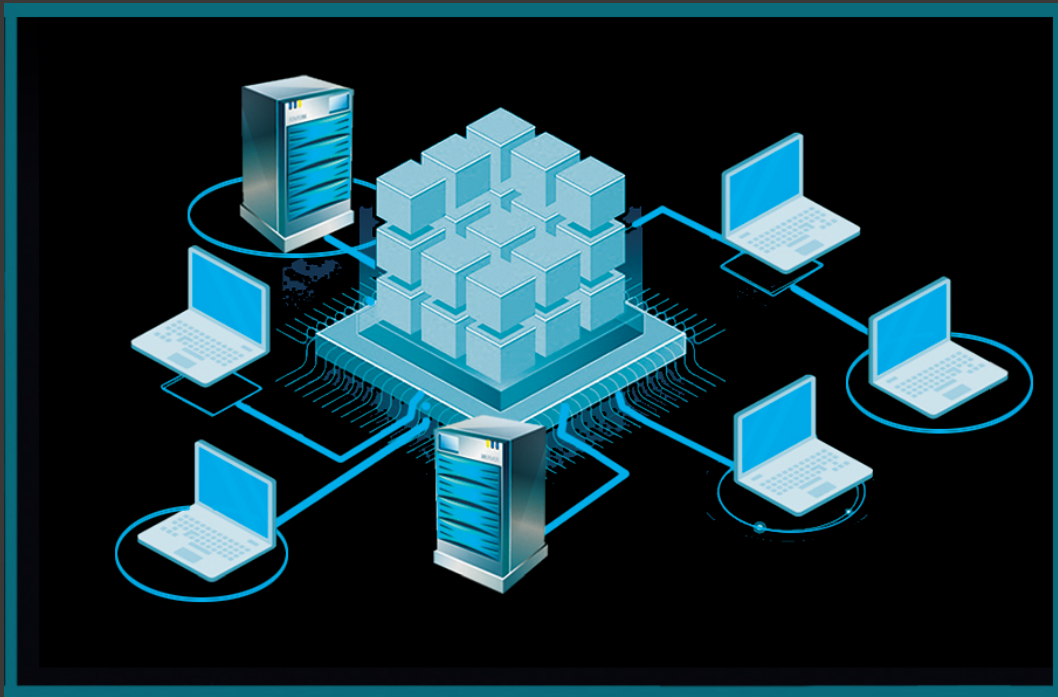




Specific Steps

- Need more suppliers to join the aerospace ecosystem
- Reduce risks of one or few suppliers and disruptions
- Reduce lead time by digital transformation
- Train more manufacturing and MRO professionals
- Access to capital – particularly lower tier suppliers
- Tighter coordination across entire supply chain network

Electronic Exchange Platform



- Connect OEMs with suppliers, and suppliers to suppliers
- B2B to B2X play
- Enable new suppliers to join eco-system

Build Aero Digital Supply Network



- System of tiers, all the way to the raw material
- Real-time management of capacity, risks, designs, and resiliency
- Start with minimum viable product

Modeling and Simulation Capability

Sound policies and design trades



- Analyze gaps, resiliency, scale, and cycle time
- Identify where changes are needed
- Policy, incentives, better trade-relations, material trades

Update Curriculum and Foster Workforce



Train workforce:

- High voltage technicians
- Aero engineers
- Entrepreneurs

All Feedback Welcome!



To collaborate: send emails to
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Join Supply Chain Working Group!



Meets every month (in collaboration with DOD Agility Prime)

NEXT MEETING:
February 11, 2021

TOPIC:
Electronic Supply Chain Platform

To register, get the fact sheet, and learn more, visit our webpage:

<https://nari.arc.nasa.gov/aamsupplychain>