GLOBAL FORUM 2021
preparatory-webex on 7 April

"Disruptive Digital Technologies, Artificial Intelligence, IoT, 5G, Blockchain …"
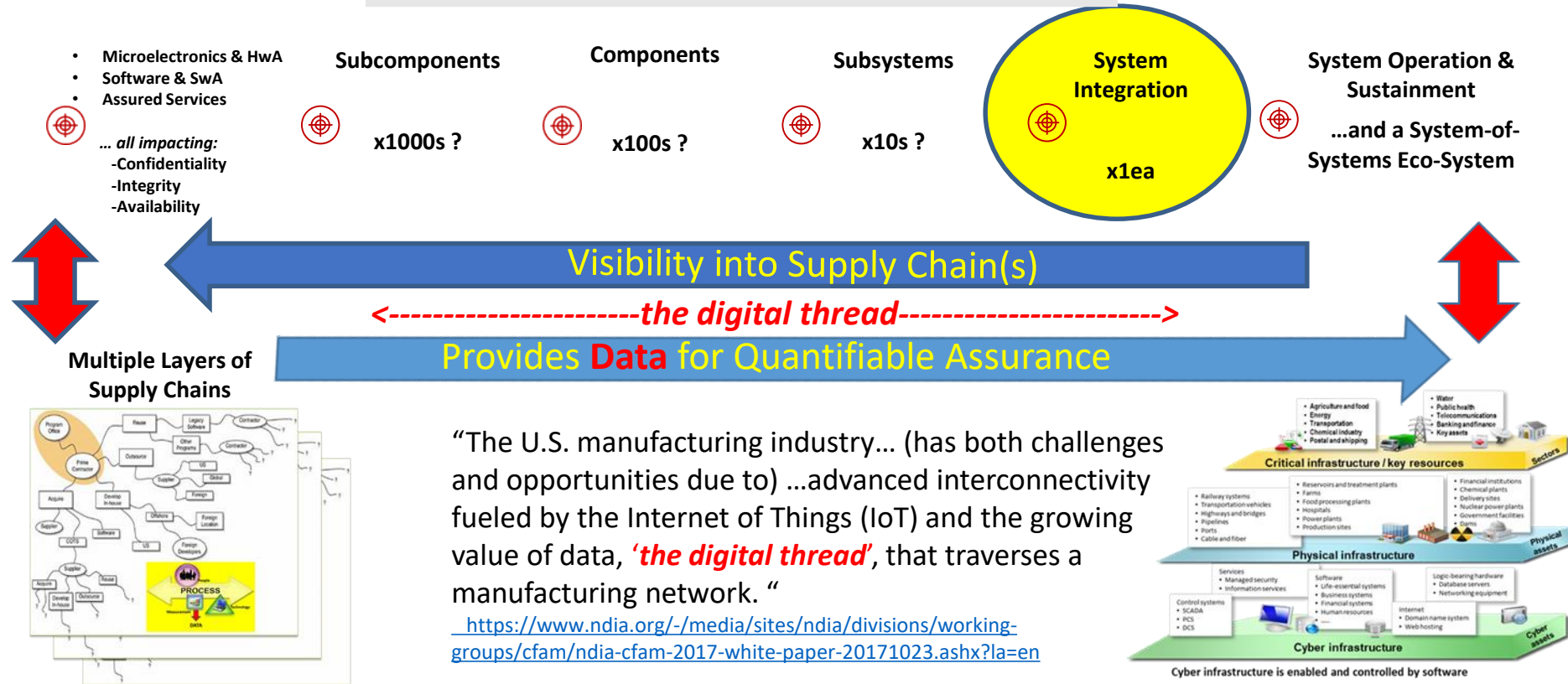### *The never-ending dilemma of the need to share vs. protect information !*

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Visibility into Supply Chains can deliver Data to improve ICT/Cyber-Supply Chain Risk Management

Vulnerabilities exist in the System Lifecycle - Research, Development, and Acquisition phases, as well as during Operations and Sustainment.

Organizations need both centralized and decentralized capabilities to: Strengthen supply chain security & Reduce the attack surface
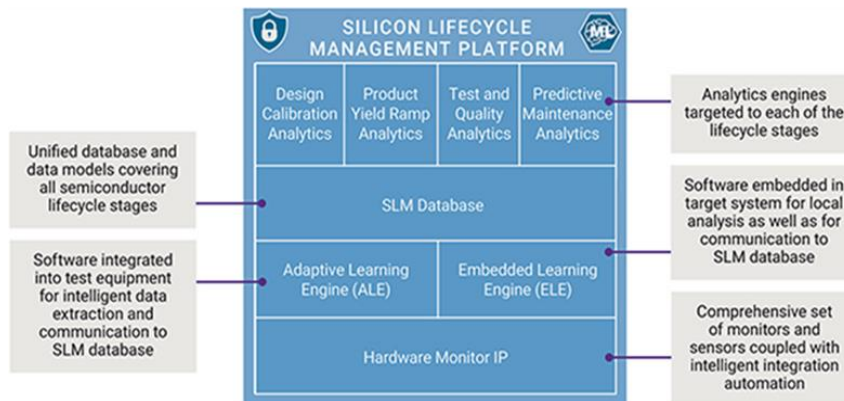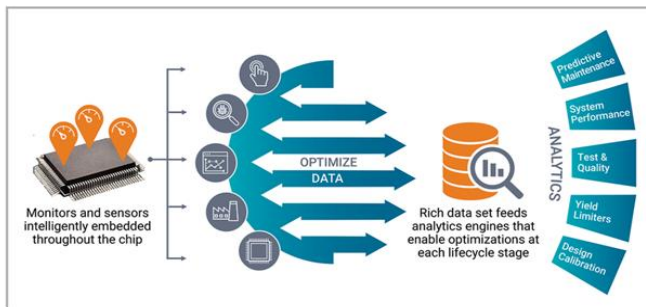
- **Microelectronics & HwA**
- **Software & SwA**
- **Assured Services**

... all impacting:
-Confidentiality
-Integrity
-Availability

Subcomponents

x1000s ?

Components

x100s ?

Subsystems

x10s ?

System Integration

x1ea

System Operation & Sustainment

...and a System-of-Systems Eco-System

Visibility into Supply Chain(s)

<-----------------------*the digital thread*----------------------->

Provides Data for Quantifiable Assurance

Multiple Layers of Supply Chains

"The U.S. manufacturing industry... (has both challenges and opportunities due to) ...advanced interconnectivity fueled by the Internet of Things (IoT) and the growing value of data, '*the digital thread*', that traverses a manufacturing network. "

https://www.ndia.org/-/media/sites/ndia/divisions/working-groups/cfam/ndia-cfam-2017-white-paper-20171023.ashx?la=en

Cyber infrastructure is enabled and controlled by software

We need to share & protect data simultaneously!
How can Blockchain Technologies & ML / AI help?

SYNOPSYS®
Silicon to Software™

2020 Gartner Magic Quadrant for Application Security Testing: Synopsys is a Leader for the Fourth Year in a Row

- October 20, 2020 -

Synopsys unveils Industry's first Silicon Lifecycle Management Platform to Optimize Entire IC Life Span

https://www.synopsys.com/solutions/silicon-lifecycle-management.html