

EVOLVING INTO A DECENTRALIZED FUTURE

GARY ZIMMERMAN

The Next Normal ...



TECHVISION

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Decision Velocity



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Speed of Execution



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**Build only what you must.
Trust others to do the rest...**

**DO
MORE.**



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Build only what you must. Trust others to do the rest...



People

- Employees
 - Technical experts
 - Business experts
 - Remote
- Contractors
- Vendor/partners
- Gig workers

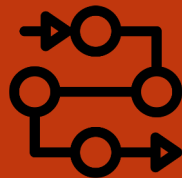
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Process

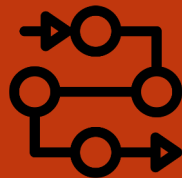
- Waterfall
- Agile
- DevOps
 - DevSecOps
 - DataOps
 - MLOps

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Software

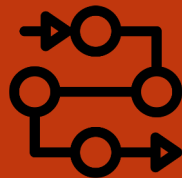
- Closed Source
- SaaS
- Open Source
- Lego Blocks
 - Microservices
 - APIs
 - 1st Party
 - 3rd Party
- No code

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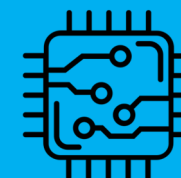
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Hardware

- Datacenter
 - Private
 - IaaS
 - PaaS
 - Serverless
- Endpoints
 - Corporate
 - Personal
 - IoT/OT
 - Service



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Think Different

Evolve a Trust Architecture

Trust Architecture



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Trust Architecture

Information
Security



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Information Security

- Data governance
- Data security
 - Data at rest, in use, and in motion
 - Encrypting, Redacting, Expunging
- Threat modeling of AI/ML systems
- Data centric security
 - Build security into the data layer
 - Data containers (verifiable credentials)

Trust Architecture

AI/ML

Information
Security



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AI/ML

- Privacy classification and compliance
- Behavior Profiles
- Bot blocking
- Endpoint protection
- Incident response

Trust Architecture



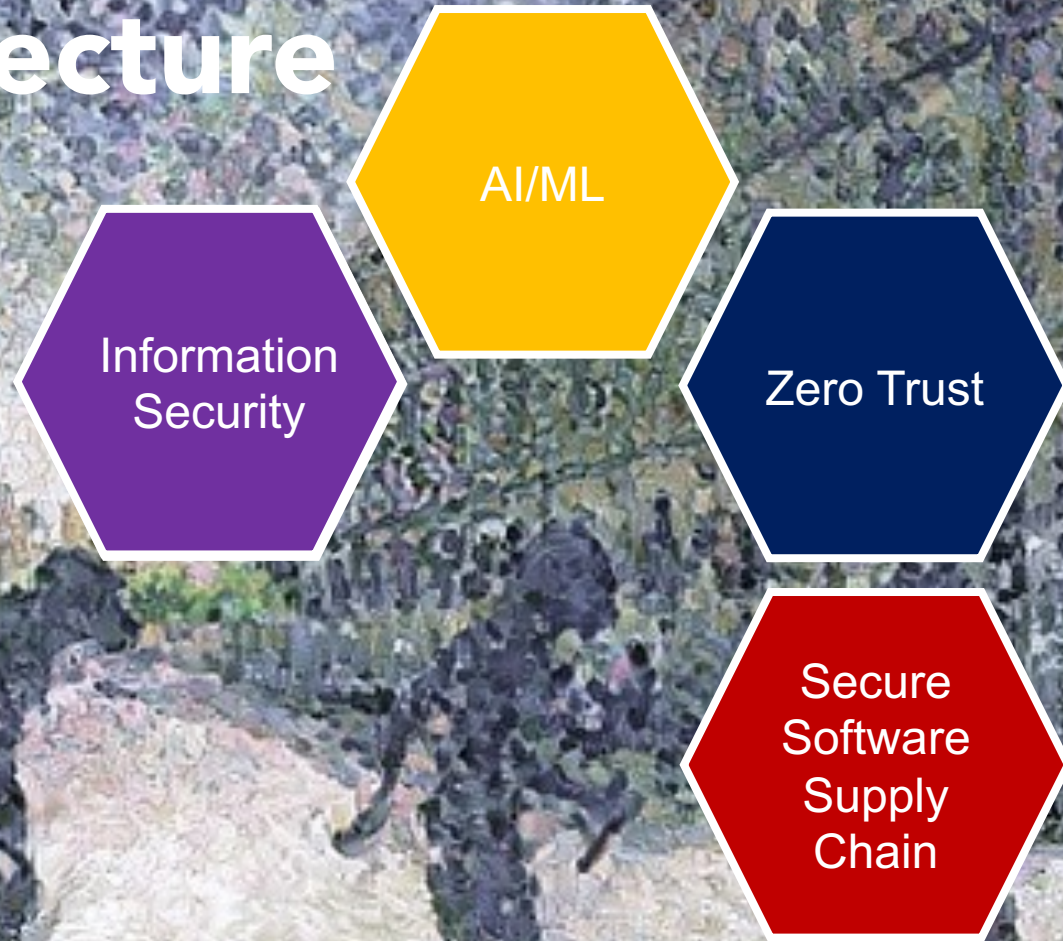
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Zero Trust

- Software defined perimeter
- Micro-segmentation
- Enhanced identity governance

Trust Architecture



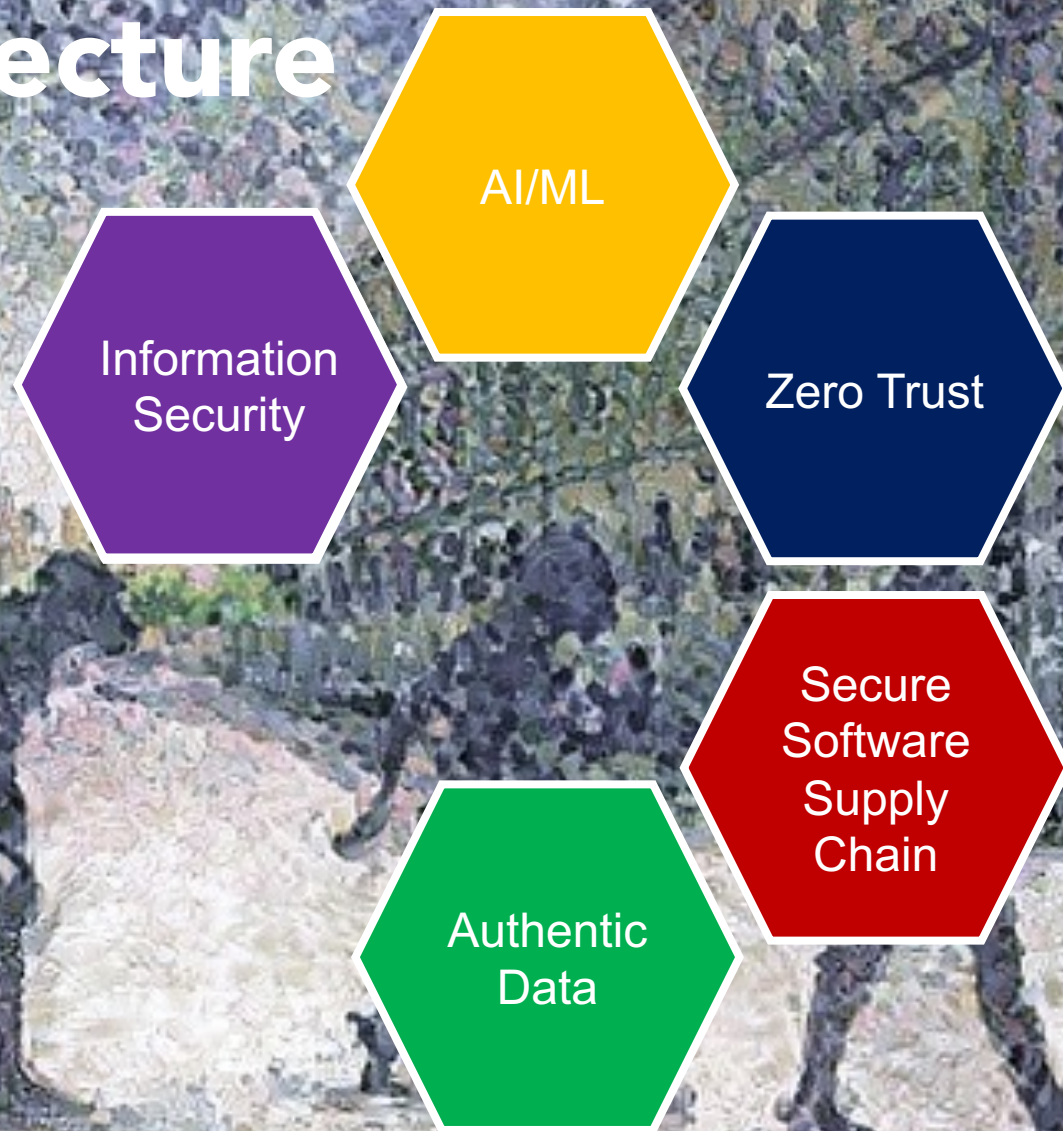
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Secure Software Supply Chain

- Secure Software Development Framework
 - Security in the code
 - Verify components
 - Harden the build environment
 - Security in the delivery
- Software bill of materials
- Secure repositories

Trust Architecture



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Authentic Data (Blockchain)

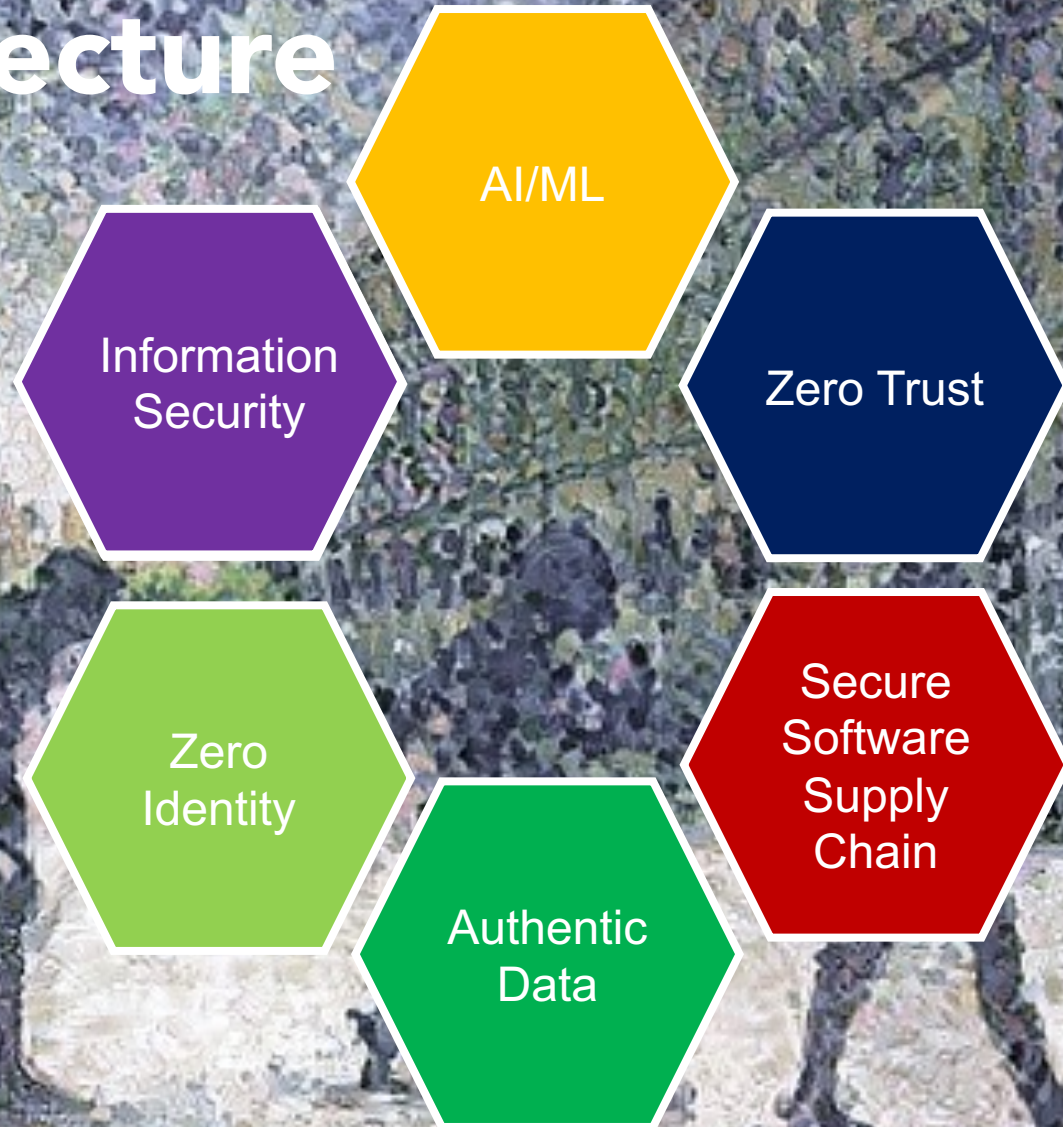
- Pattern
 - Governing trust framework
 - Genesis block
 - Hashing and chaining
 - Validation rules
 - Consensus mechanism
- Automatic Contract Execution
- Trust, Proof, Provenance



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Trust Architecture



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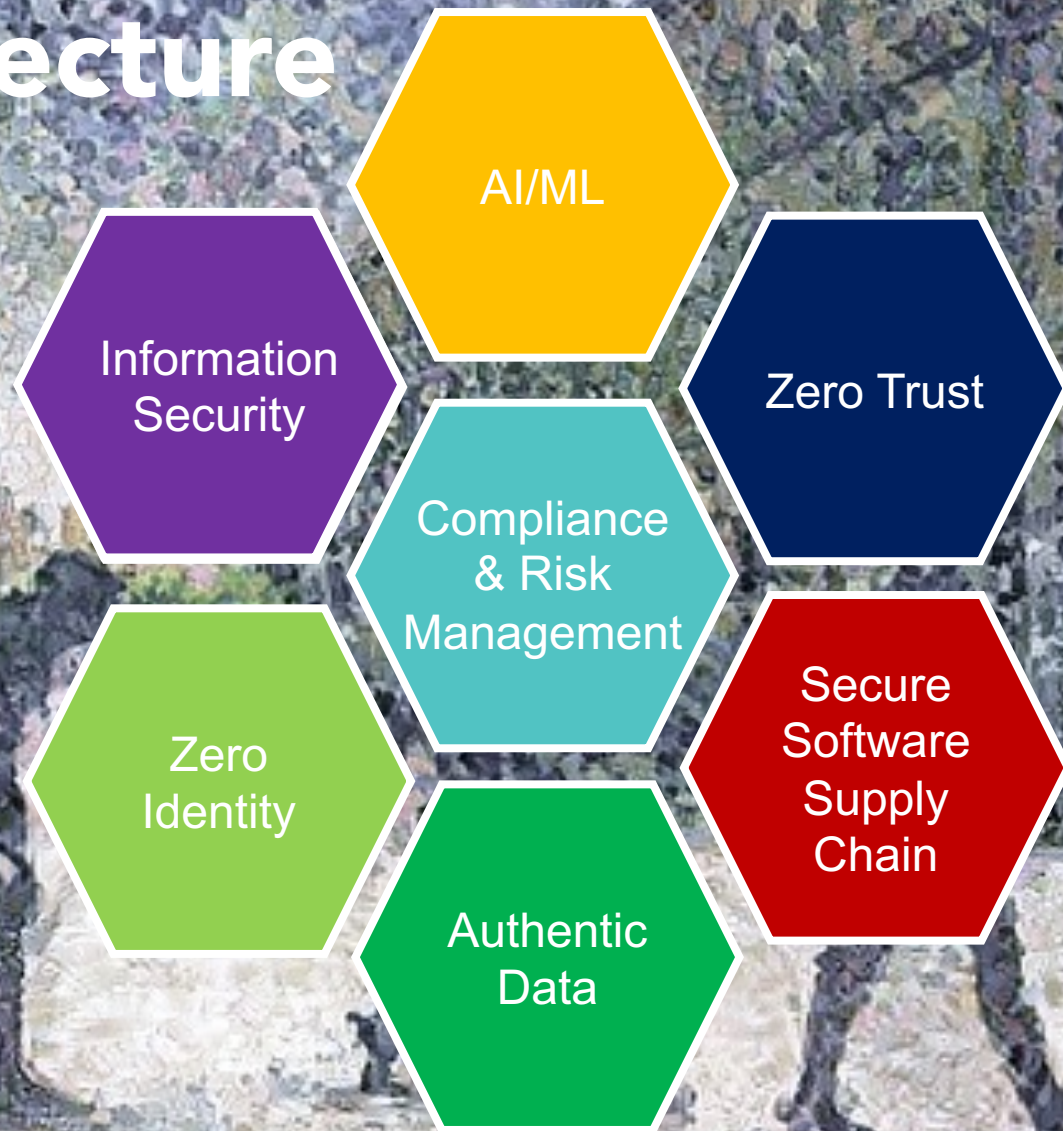
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Zero Identity

Where authentication is not about the capture and spread of personal information (Identity), but proving authorship, provenance, integrity, and control of the information required to establish and maintain trust.

- Evolve from knowledge-based authentication
 - User ID / Password
 - Shared secrets
- To newer models
 - Decentralized Identity (DID)
 - Pass-wordless authentication (FIDO)
 - Cryptographically Verifiable Credentials (VC)

Trust Architecture



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And one more thing ...

Web3 & the Metaverse



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