



- Overview
- Human Perspective**
- Technology Perspective
- Fusion: Transformation
- Fusion: Bionic Architecture
- Artificial Intelligence
- Fusion: Fusion Strands/UX
- Value Generation
- Fusion: Roadmap

Leadership growth through career paths that emphasize maturing and developing visionary leadership as part of the overall human capital development process.

Human Perspective Society 5.0/ USA 2.0

The same Bionic Enterprise that would initially subjugate employees can also gradually educate and elevate employees to higher levels of human participation in the corporate adventure.

"...Society 5.0 will follow Society 1.0 (hunter-gatherer), Society 2.0 (agricultural), Society 3.0 (industrialized), and Society 4.0 (information). Also called the 'super-smart society', Society 5.0 envisions a sustainable, inclusive socio-economic system, powered by digital technologies such as big data analytics, artificial intelligence (AI), the Internet of Things and robotics. The 'cyberphysical system', in which cyberspace and the physical space are tightly integrated, becomes a pervasive technological mode supporting Society 5.0." - Japan Pushing Ahead with Society 5.0 to Overcome Chronic Social Changes – UNESCO – 2/21/2019

- 4th Industrial Revolution
- Augmented Human Capabilities
- Human-Centric Societal Design

"AI will be humanity's final innovation."

Atefah Riazi, Chief Information Technology Officer United Nations

The future belongs to organizations that can do three things ...

- Use their architecture to fuse intelligent technologies with every aspect of the organization for improved human experiences,
- Recognize and adjust to paradigm shifts to maintain enterprise relevance and vitality,
- Manage their transformation to maintain competitive advantage and strategic relevance.

Visionary Leadership

- Transactional Leadership = 1st Order Change
- Transformational Leadership = 2nd Order Change

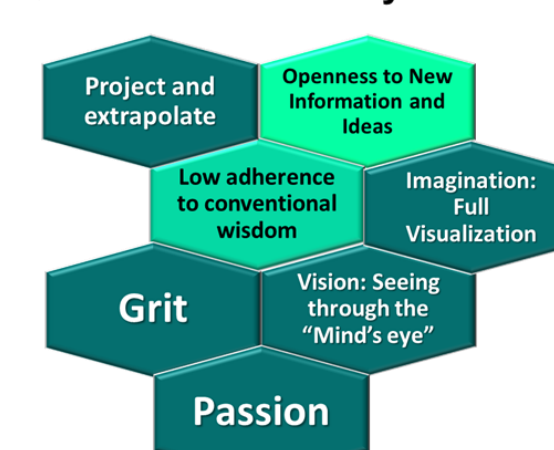
Bionic Enterprise Visionary Leadership Maturity Model

Visionary Quotient	Leadership Maturity Adoption	Drive	Impact	Connection	People/Team Development
Cognitive & Behavioral Capital	Performance Effects	Analytics & Planning	Action Orientation	Network Capital	Bionic Technology Application to Value Generation

Foster Visionary Leadership

Visionary leadership at all levels understands the value proposition of Bionic Technologies and how to effect value generation to improve performance effects and leverage behavioral, cognitive, and network capital.

Qualities of Visionary Leaders



Visionary leaders commit disruptive thinking.

Organizational Maturity

Mature the Organization to enhance all dimensions of organizational maturity for the current and future paradigms.

Bionic Enterprise Organizational Maturity Model

Strategic	Creative	Engaged	Innovative	Elastic
human perspective	human perspective	human perspective	technology perspective	human perspective

Changing the culture of the enterprise to internalize an embrace transformation begins with understanding the consequences of not doing so.

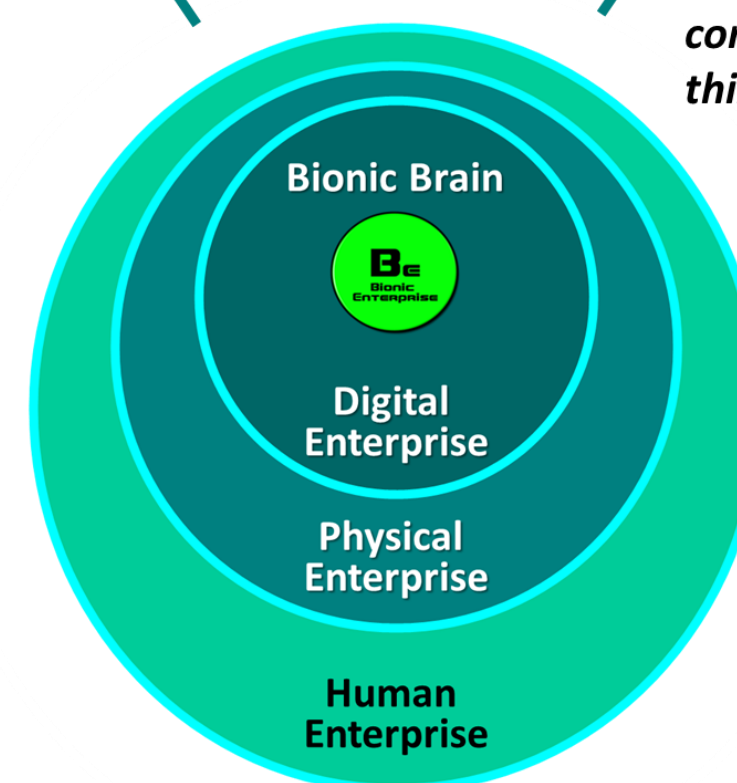
Humans 2.0

AI must enable bionic technologies to be elastic in the roles they will play in our lives so that AI is to each person what they want it to be – not what the AI has determined it should be.

Skills Needed to Outsmart Robots in the Workplace

Source: World Economic Forum – Future of Jobs Report 2018

- Complex Problem Solving**
Understanding things that machines can't is key to staying ahead
- Critical Thinking**
Analytical, open-minded reasoning will be a sought-after skill
- Creativity**
A quality that may elude even the most powerful AI
- People Management**
Even the coolest robots can't match you for empathy, teamwork and sense of humor
- Working with Others**
Both teams and individuals thrive on good collaboration
- Emotional Intelligence**
Empathy and understanding lead to a more harmonious workplace
- Judgement and Decision-Making**
As humans will still have the final say
- Service Orientation**
Offering customers added value
- Negotiation**
A key survival skill that the rise of machines will not change
- Cognitive Flexibility**
Being able to switch working styles on demand



Dimensions of an Operating Paradigm



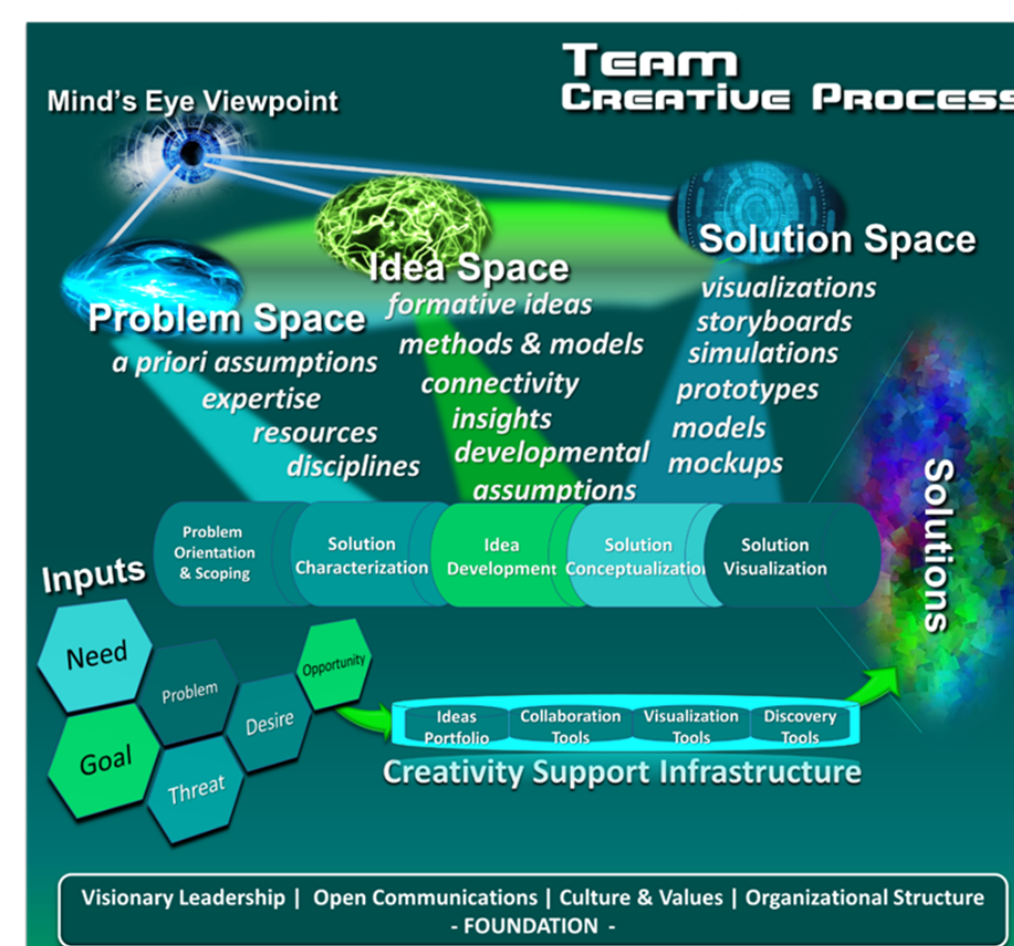
Creativity Maturity

Implementing a creative framework in your organization is really designing the internal combustion engine that will provide a never-ending source of fuel to the enterprise's innovation engine.

Bionic Enterprise Creativity Maturity Model

People	Process & Models	Tools & Resources	Culture	Visionary Leadership	Organization	Facilities
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An enterprise cannot be bionic without a balanced approach to creativity, visionary leadership, and overall enterprise maturity across several or all its core functions.



Team Creative Process General Phases



Instill Creativity and Innovation

"Creativity is the power to connect the seemingly unconnected."
- William Plomber (author)

The Bionic Enterprise is about the link between human and machine, the fusion of AI-enabled technology with a creative, visionary organizational culture, structure, and leadership that understands and appreciates the potential of the technology and leverages it to effect transformative change that results in value generation.

Bionic UX Effects

Mentoring

Collaboration

Empathizing

Partial Task Automation

Task Acceleration

Immersion (UX/VR/AR)

Task Augmentation

Task Elasticity & Scalability

Task Autonomy

Task Precision

Task Accuracy

Decision Support

Bionic Manifesto

Ubiquitous

Hyper-Aware

Hyper-Connected

Hyper-Intelligent

Curious

Empathetic

Self-Optimizing

Hyper-Adaptive

Evolutionary

Self-Motivated

Hyper-Converged

The technologies of the Bionic Enterprise will change the structure and function of organizations and society. We need a framework to organize their application and put them into meaningful context.

Interface

Intelligence

Integration

Infrastructure

Transformation

Bionic Enterprise Capability Areas