# Preparing for the Future of Intelligent Systems

INTRODUCTION TO THE SPRING PROGRAM 3.16.18







#### Welcome and Introductions

#### **SPRING Team**



Jeff Cope



Tom Culver



Jim Redden

Adrienne Brown



Lee Green

#### **SPRING Advisory Board**



INNOVATION RESEARCH INTERCHANGE





















#### Who is RTI International?





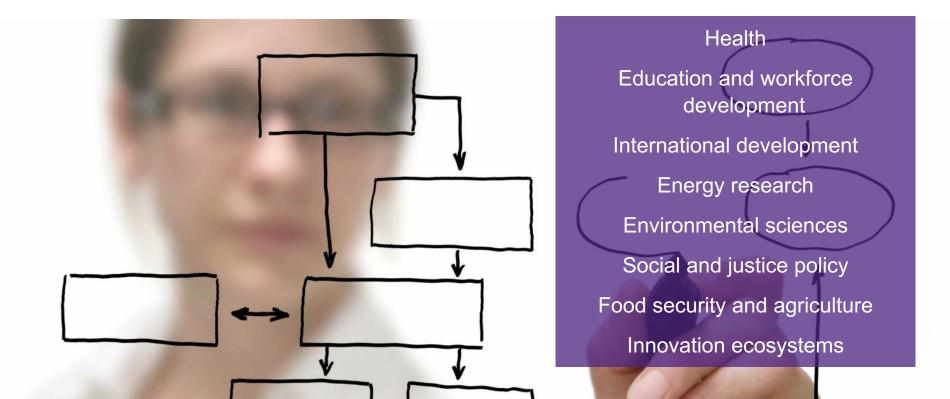


#### What We Do



#### **Practice Areas**

Multidisciplinary expertise and research insights our clients need to inform policy, practice, and programs







#### SPRING = Sourcing PRedictive Insights for New Growth

The pace of change is increasing...

The future will be markedly different from today...





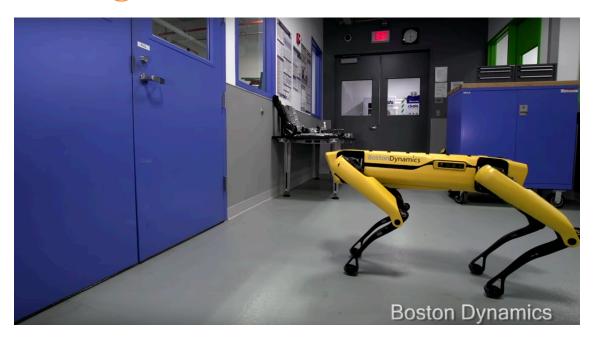
#### SPRING = Sourcing PRedictive Insights for New Growth

How can I ensure that my organization is adequately prepared to capitalize on future opportunities and recognize future threats to my business?





# How might autonomous and connected robots revolutionize logistics and workforce?



https://www.youtube.com/watch?v=fUyU3IKzoio





# How will AI and machine learning technologies impact the future?



https://www.youtube.com/watch?v=AmUC4m6w1wo





#### How do we separate the signal from the hype?



https://www.youtube.com/watch?v=Cx5aNwnZYDc





# SPRING Program Guiding Principles

Organizations want confidence and conviction about how to prepare for the future

Using foresight best practices is a key for future exploration

SPRING success requires external insights combined with internal context – we need you!

Facilitating impact inside your company requires more than a report

Cross industry perspectives are key for learning





#### Participating in SPRING will allow you to develop:

- 1. Deeper understanding of emerging opportunities and threats related to intelligent systems
- 2. Insights about how others are preparing for the future of intelligent systems
- 3. An opportunity to consider the implications of alternate futures for your organization





# **Smart Horizons**: Preparing for the Future of Intelligent Systems

#### What do we mean by Intelligent Systems?

A technologically advanced machine or connected set of machines...

that perceive and respond to the surrounding digital or physical world...

often learning from experience, supporting people, or completing tasks...

that can range from the simple and repetitive to the very difficult and complex.

















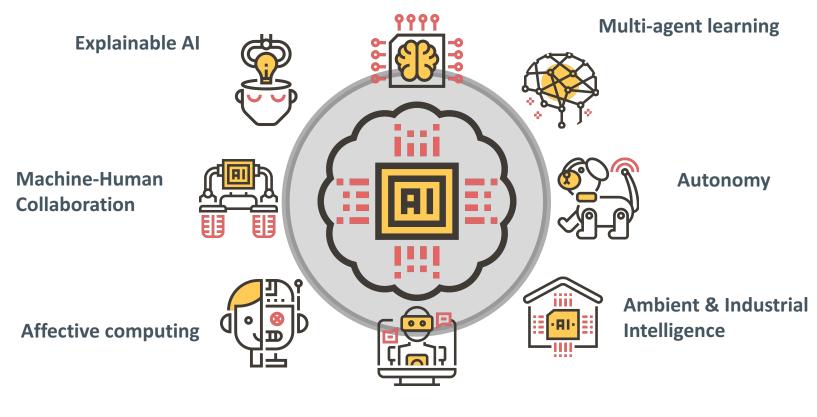




#### The Future of Intelligent Systems

We can explore the future of Intelligent Systems in many domains.

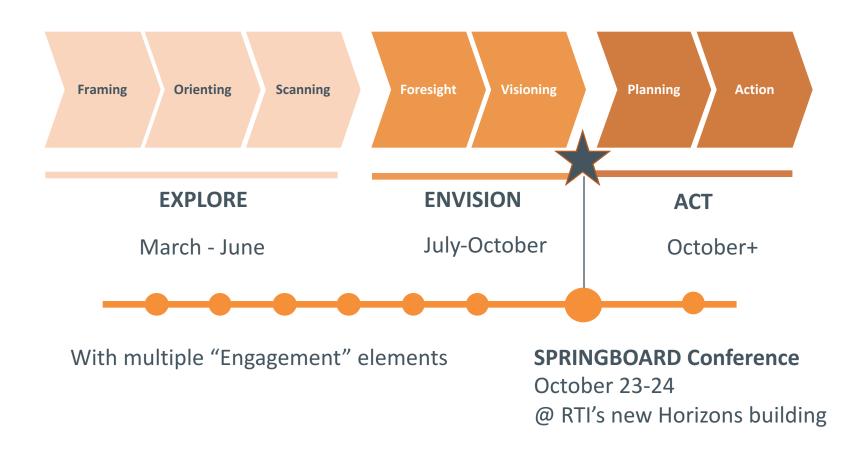
#### **Learning Systems**







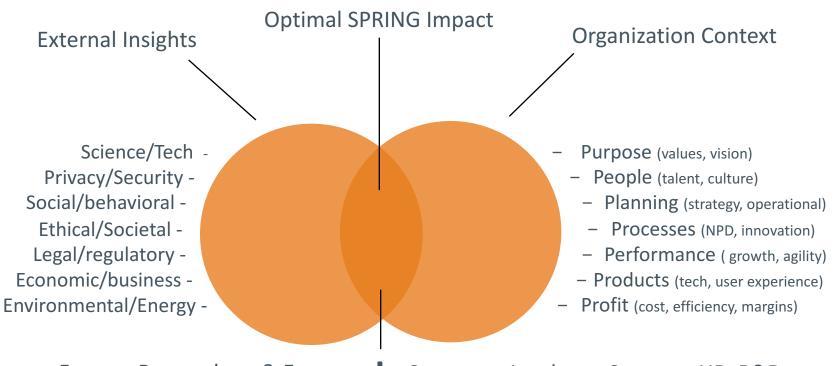
#### **SPRING Foresight Process**







#### SPRING = Sourcing PRedictive Insights for New Growth



Futures Researchers & Experts + Corporate Leaders – Strategy, HR, R&D, etc.





**Curated Content Modules** 

Field Trips

**Thought Leader Interviews** 

In-person workshops

Two Day Conference

Building organizational conviction through a foresight process requires more than reading a report





**Curated Content Modules** 

Field Trips

**Thought Leader Interviews** 

In-person workshops

Two Day Conference

**Framing** Orienting **Scanning Foresight** Visioning **Planning** Action

Module 0: What is SPRING? Module 1: Why Foresight?

**Module 2:** Introduction to Intelligent Systems **Module 3:** Current State of Intelligent Systems

**Module 4:** Emerging Trends and Future Signals **Module 5:** Intelligent Systems Key Drivers,

Trends, and Barriers

Module 6: Looking at Intelligent Systems

Through Multiple Lenses

**Module 7:** Intelligent Systems Alternate Futures

**Module 8:** Moving from Insights to Implications

**Module 9:** Bringing the Potential of Intelligent

Systems to Your Organization

**Bonus:** Preparing your Organization for the

**Future of Intelligent Systems** 

**Bonus:** Partnering and Collaboration for

Innovation in Intelligent Systems





**Curated Content Modules** 

#### **Field Trips**

**Thought Leader Interviews** 

In-person workshops

Two Day Conference



Thursday June 07, 8:30 am - 2:00 pm

#### Spring Immersion Trip to the GA Tech Robotarium & the Microsoft Innovation Center

#### **Abstract**

Tour the first-of-its-kind, remotely accessible swarm robotics lab. The Robotarium houses more than 100 rolling and flying swarm robots that

ro accossible to anyone. Trial Microsoft's Holel one the first solf





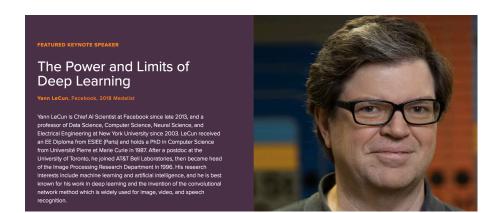
**Curated Content Modules** 

Field Trips

**Thought Leader Interviews** 

In-person workshops

Two Day Conference







**Curated Content Modules** 

Field Trips

Thought Leader Interviews

**In-person workshops** 

Two Day Conference

### **Breaking Boundaries**

What's now. What's next.

JUNE 4-7, 2018

Marriott Marquis, Atlanta, GA Co-located with the NSF SBIR II Conference

REGISTER NOW



10:30 am - 12:00 pm

SPRING Trend Immersion: Moving from Information to Insights View Details

Interactive Breakout

10:30 am - 11:15 am

Perspectives in Strategic Foresight, Part 1: How Foresight can guide machine learning and machine learning can support better foresight outcomes View Details

Interactive Breakout

11:15 am - 12:00 pm

Perspectives in Strategic Foresight, Part 2: Horizon Scanning Methods to Detect Emerging Technology View Details

Interactive Breakout





**Curated Content Modules** 

Field Trips

**Thought Leader Interviews** 

In-person workshops

**Two Day Conference** 



Note: Space is limited. Register early.





#### "This is all great, how do I get more involved?"

- 1. Build an internal team to participate as a cross functional group
- 2. Register for the Conference in October Space is Limited
- 3. Sign up today to receive SPRING updates and exclusive content (email green@iriweb.org)
- 4. Engage with various program elements over the next six months
- 5. Consider becoming a SPRING Pioneer





#### Become a SPRING Pioneer

We are recruiting a select group of participants to engage at a deeper level with program content and help shape the future of SPRING.

As a Pioneer, you get

- Facilitated small group x-industry interactions with other Pioneers
- Priority access to limited-space events (field trips, etc)
- Additional content and collaboration with RTI and other experts

Being a Pioneer is the most immersive way to bring the benefits of SPRING back to your organization

For more information and to sign up to be a pioneer

• Email Lee Green@iriweb.org by Friday March 30<sup>th</sup>





# SPRING Program Guiding Principles

Organizations want confidence and conviction about how to prepare for the future

Using foresight best practices is a key for future exploration

Impact requires external insights combined with internal context – we need you!

Facilitating impact inside your company requires more than a report

Cross industry perspectives are key for learning





#### Questions?

Jim Redden jredden@rti.org 919.248.4222

Tom Culver tculver@rti.org 603.554.1920

Lee Green
<a href="mailto:green@iriweb.org">green@iriweb.org</a>
703.647.2597