



Setting the Standard for AutomationTM

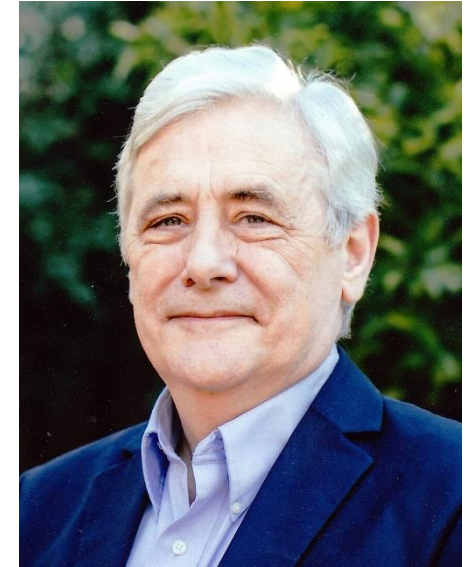
Imperatives for the Automation Profession in a Changing World

Past, Present and Future

Standards
Certification
Education & Training
Publishing
Conferences & Exhibits

Your Speaker...

- 35+ years experience in industrial information technology
- 15+ years in ICS cybersecurity, at the company, sector, national and international level
- Founding member and co-chair, ISA99 committee
- Past vice president of standards and practices at ISA
- Member of ISA Executive board
- Former leader, chemical sector cybersecurity program



IT OIT Concepts, LLC

"In Operations IT is different."

Abstract

In recent years the need for improved cybersecurity for automation systems in the critical infrastructure has received a great deal of attention, both within the industrial community and beyond. This is but one example of how the automation profession must react and adapt to changing needs in our increasingly sophisticated society.

As a professional community we must constantly evolving to address the challenges associated with technology and societal trends ranging from digital transformation of businesses to smart cities and autonomous vehicles. These and other changes present opportunities for current and future members of our profession.

How we address those opportunities is entirely up to us.

Topics

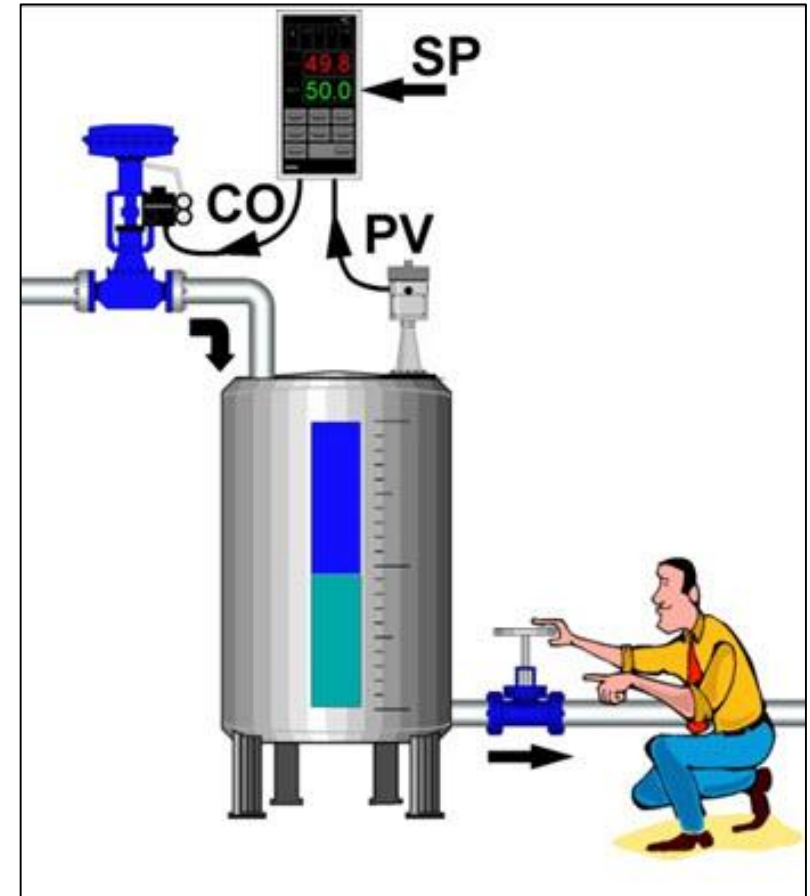
- Examining “Automation”
- Beyond the “sweet spot”
- ISA strategy
- What are our opportunities?
- Your thoughts



What is “Automation” ?

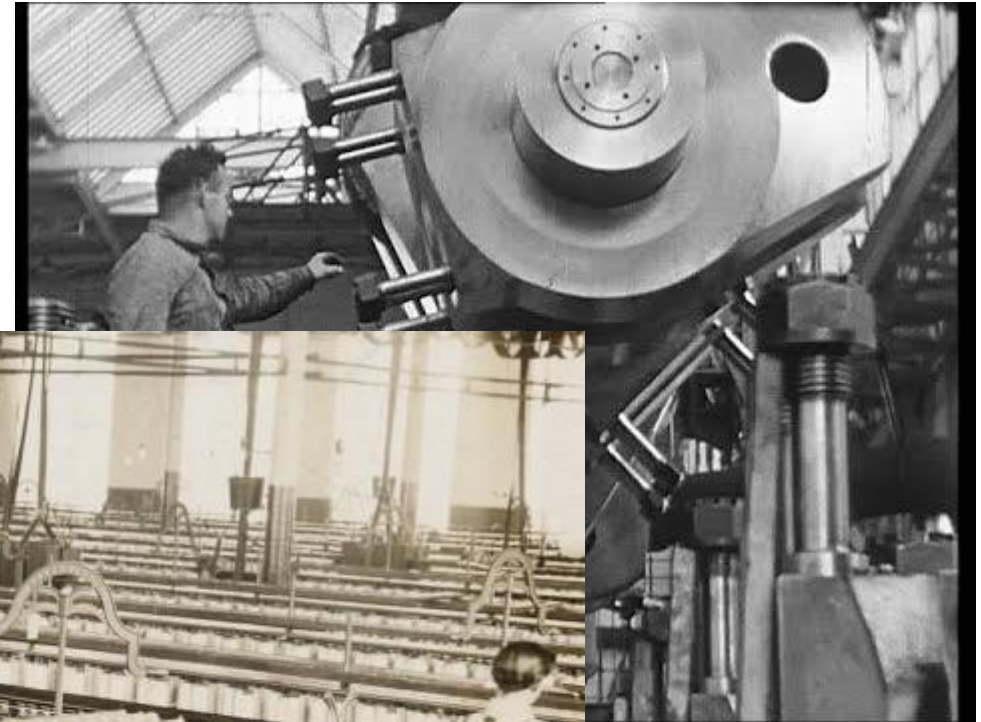
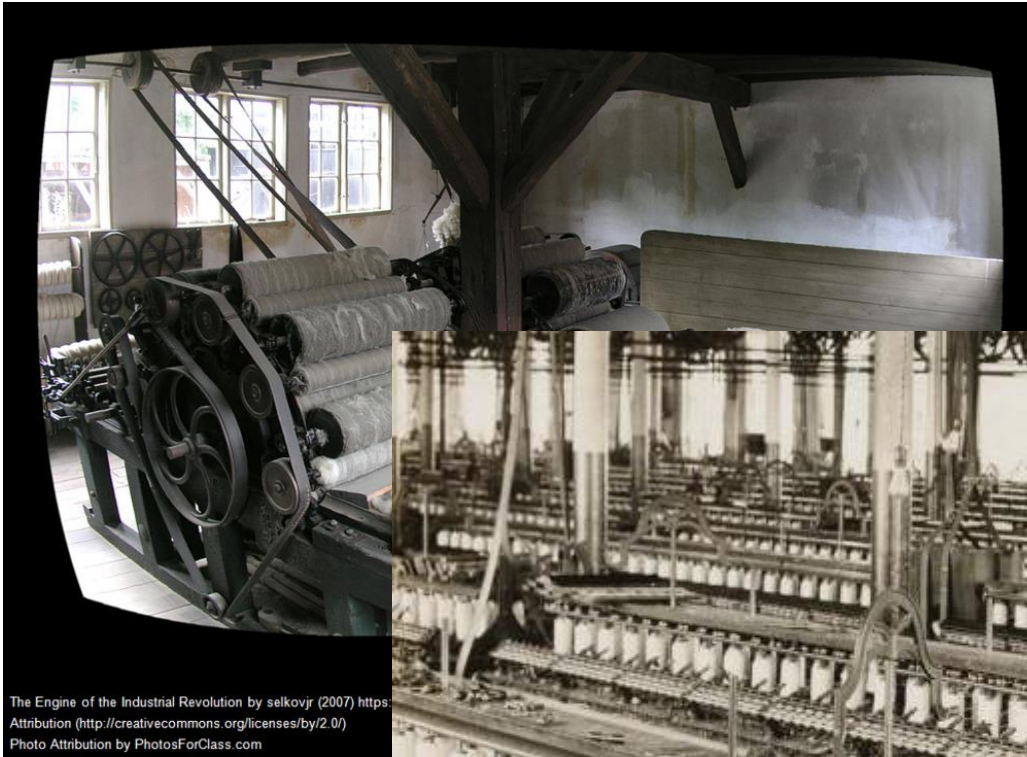
- “... the creation of technology and its application in order to control and monitor the production and delivery of various goods and services....”

Automation is being used in a number of areas such as manufacturing, transport, utilities, defense, facilities, operations and lately, information technology.”



- <https://www.techopedia.com/definition/32099/automation>

History



Drivers and Benefits

- Productivity
- Quality
- Flexibility
- Accuracy
- Safety

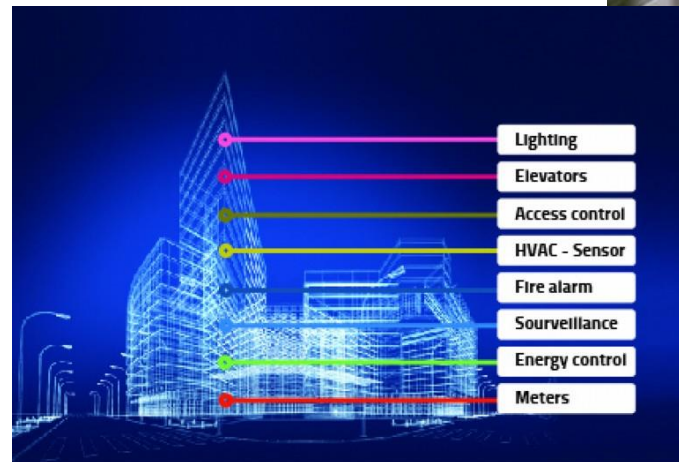
BENEFITS OF AUTOMATION

- INCREASES THE PRODUCTIVITY
- CONSISTENCY IN PRODUCT QUALITY
- REPEATABILITY
- PRODUCTION HISTORY TRACEABILITY
- REDUCES HUMAN ERRORS
- REDUCES HUMAN RESOURCES FOR OPERATION

Beyond Our “Sweet Spot”

- Internet of Things
- Smart Cities
- Transportation
- Autonomous Vehicles
- Building Automation

– And so on...



ISA Strategy

VISION

Create a better world through automation

MISSION

Advance technical competence by connecting the automation community to achieve operational excellence

VALUES

EXCELLENCE: We strive to provide industry leading resources and unbiased content developed and vetted by our community of experts.

INTEGRITY: We act with honesty, integrity, and trust, treating others with respect in all that we do.

DIVERSITY AND INCLUSION: We strive to be a global, diverse and welcoming organization.

COLLABORATION: We seek out opportunities to work together for the benefit of the Society, its members and our profession.

PROFESSIONALISM: We uphold the highest standards of competence and skill in everything we do.

Objectives



Industry Reach & Awareness

Establish and advance ISA's **relevance** and credibility as the **home of automation** by anticipating industry needs, collaborating with stakeholders, and developing and delivering **pertinent technical content**.

Member Development & Engagement

Enhance **member value** and expand **engagement** opportunities to nurture and grow a more **diverse** and **global** community to advance the automation profession.

Technical Education & Certification

Become the recognized leader in automation and control **education**, providing training, certifications, and publications to **prepare the workforce** to address technology changes and industry challenges in the most **flexible** and **relevant** ways.

Leadership & Business Skill Development

FUTURE FOCUS: Create **opportunities** for members to improve critical **leadership skills**, to build a **network** of industry professionals, and to develop the **next generation** of automation professionals.

Themes

- ISA as the “Home of Automation”
- Advocating for the automation profession
- Career development
- Coaching and mentorship



The Opportunities are There



Your Thoughts?

