





SYSTEM SAFETY AS A VALUE-ADDED BUSINESS DRIVER

Sonia Bot & Tony Zenga



You point out that “implementing a comprehensive safety program that meets the new demands of autonomous systems can be perceived as a daunting and risky proposition, especially when breaking new ground.”

How can such a perception be overcome?



**Explain and provide examples of the
five guiding principles of
implementing a system safety program—
rewarding an entrepreneurial culture,
exercising business rigor and relevancy, forging
productive partnerships,
safeguarding end-to-end flow, and
fostering a learning organization.**



**You note that “in some cases,
safety failures are socially accepted
within the walls of an industry.”**

Why is that, and how can this be overcome?

What are “Big Bang delivery” and “isolated brute force”?

**You propose an alternative,
“Entrepreneurial Time-to-Market.”**

Describe that.



**Why is it so important for safety to evolve
from a cost center
to a value-added business driver?**



FOR MORE INFORMATION

SPECIFIC TO THIS PRESENTATION

Bot, Sonia D. and Tony Zenga. 2020. Safety Doesn't Happen by Accident: System Safety Comes of Age, PART 2: System Safety as a Value-Added Business Driver. *Railway Age*. November 2020.

PDF: [Railway Age November 2020 System Safety Part 2-BotZenga-Magazine](#)

Link: <https://www.railwayage.com/safety/system-safety-part-2-a-value-added-business-driver/>

Bot, Sonia D., Tony Zenga, William C. Vantuono (editor). Safety Doesn't Happen by Accident: System Safety Comes of Age, PART 2: System Safety as a Value-Added Business Driver. *Rail Group On Air (Railway Age; Rail, Tracks, and Structures; International Railway Journal)*. Podcast. November 2020.

PODCAST: <https://www.railwayage.com/podcasts/safety-doesnt-happen-by-accident-part-2-rail-group-on-air-podcast/?RAchannel=home>

TRANSCRIPT: [TRANSCRIPT-RailwayAge-SystemSafety-Podcast2-2020-11-15b](#)

OTHER RELATED REFERENCE MATERIAL

<https://botgroupinc.com/publications/>

**3-PART SERIES BY SONIA BOT & TONY ZENGA
HOSTED BY ISSS CANADA**

SYSTEM SAFETY COMES OF AGE IN INDUSTRY 4.0

May 26, 2021

SYSTEM SAFETY AS A VALUE-ADDED BUSINESS DRIVER

June 9, 2021

SYSTEM SAFETY: OVERLOOKED PRACTICES

July 7, 2021

SONIA BOT, chief executive of The BOT Consulting Group Inc., has played key roles in the inception and delivery of several strategic businesses and transformations worldwide. She's navigated through downsizing, right-sizing, de-regulations, SEC investigations, and economic downturns / scale-ups, let alone work through one of the largest and high-profile global corporate bankruptcies in the world.

By utilizing methodologies in entrepreneurship, business precision, Lean Six Sigma, systems and process engineering, and organizational behavior she's enabled organizations to deliver breakthrough results along with providing them a foundation to continue to excel. Her approaches on the evolution of companies and industries are game changers that drive innovation and competitive advantage.

Her experience ranges from Fortune 500 corporations through to medium-sized ones, plus SMBs and start-ups. Industries include high technology, media, telecommunications, information and computing technology, railroading, transportation, energy, medical and healthcare, aerospace and defense, and education.

She holds engineering degrees from the University of Waterloo (BMath) and the University of Toronto (MAsc) and is a certified Lean Six Sigma Master Black Belt.

Sonia can be reached at sdbot@botgroupinc.com or www.botgroupinc.com.

TONY ZENGA is the ISSS Canada Chapter President and owner of CMTIGroup Inc. Tony is an accomplished specialty engineering consultant with international experience in operational reliability and safety for mission critical systems. He has played key roles in the implementation of System Safety engineering programs for aerospace, defense, high tech, air traffic control, mass transit and rail infrastructure projects worldwide.

By leveraging on his design and development experience of largescale safety-critical systems, combined with his systems engineering knowledge, he enables organizations to deploy their systems safely into field operation.

Tony was awarded the ISSS Manager of the Year Award in November 2020. He holds a Bsc, Engineering degree from California Coast University and is a certified software engineer from University of British Columbia.

Tony can be reached at tzenga@cmtigroup.com or www.cmtigroup.com



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