

Digital Transformation in Manufacturing – Industry 4.0 and the Smart Factory

ABSTRACT

Manufacturing organizations have a wide spectrum of maturity in implementing digital technology. The digital transformation roadmap has a different definition for every organization depending on their business needs and strategy.

The 4th industrial revolution has been upon us and is promising to bring significant value to the business by leveraging emerging technologies in manufacturing environments.

In this talk we will begin with an introduction to the business capabilities and challenges involved in realizing the vision of the smart factory; we will also highlight the current state of emerging technology implementations in manufacturing. We will then delve into the integrated manufacturing systems architecture for plant operations, and how it is extended to cover industry 4.0 components including data integration with other foundational manufacturing system components. Finally, we will take a close look at how the *EY Industry 4.0 Assessment Framework* is used as an approach to develop the roadmap for digital transformation and the smart factory journey.



Aly
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MANUFACTURING
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Toronto, Ontario

Aly is an Associate Partner in EY Canada Digital Supply Chain & Operations, and leads our manufacturing systems practice.

Aly's experience is focused on leveraging digital manufacturing technologies to enable business outcomes and drive performance for operational excellence and supply chain optimization. He has more than twenty years of comprehensive experience leading manufacturing system implementations and digital transformation projects for enterprise scale operations including Fortune 500 clients, in the areas of Manufacturing Execution Systems (MES) / Manufacturing Operations Management (MOM), Energy Management Systems, Shop Floor to ERP integration, Control Systems and OT layer integration, Advanced Control and Optimization, and Production Management Analytics.

Aly's client engagements have encompassed both green and brown fields, with full life cycle implementations.

Aly holds a doctorate degree in Advanced Control Systems from McMaster University.

The Art and Science of Data Analytics

ABSTRACT

Data science is a very well-known and established field in technology. Indeed, data analytics is often associated with technical skills like engineering and statistics, but EY has developed an approach to uncovering data insights that marries science and art, to design data solutions that will be fit for purpose and provide actionable information.

This talk will begin with an overview of Data Storytelling through key underlying concepts like user-centric design, personas approach and information architecture. We will then delve in how software development and web design approaches can inspire organizations in their Business Intelligence journey with an iterative and agile mindset focused on prototyping and testing. Finally, we will explore design principles inspired by the field of psychology and how they can be applied to data visualization for effective data-driven decision-making.



**Josyane
Francoeur**

DATA & ANALYTICS
Montreal, Quebec

Josyane Francoeur is a Senior Manager in the Data and Analytics practice, leading the business intelligence and data visualization

Josyane's skillset combines strong technical capabilities and creativity to efficiently translate data into compelling, engaging narratives for business decisions and complex problem solving. Her excellent communication skills and ability to craft actionable insights stories allows delivering results in a highly organized manner for a variety of audiences.

Her expertise includes modern Business Intelligence, data integration, data visualization and storytelling, UI/UX design, reporting and dashboarding, predictive modelling, along with data and information strategy

Josyane holds a master degree in business intelligence and bachelor in business administration from HEC Montréal.

Change Management for SAP and Industry 4.0

ABSTRACT

As organizations continue to evolve and adopt new technologies, change management has become an increasingly critical component of successful implementations. In the world of Industry 4.0, change management is essential for ensuring that new systems are integrated smoothly, employees are trained and communicated to effectively, and stakeholders are engaged throughout the process.

We will begin with a brief introduction to the topic of change management, more specifically its evolution over time. We will then delve into EY's *Change Experience*, a comprehensive framework that has been developed to help organizations successfully manage change. But more importantly, to help organizations improve how their employees experience change. During the presentation, we will explore the four pillars of the *EY Change Experience* and discuss how these pillars can be operationalized in the context of an SAP implementation and Industry 4.0, using case studies to illustrate key points.

Participants will leave this presentation with a better understanding of the importance of change management in the context of an SAP implementation and Industry 4.0, as well as practical strategies for implementing change management processes within their own organizations and projects.



**Antoine
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CULTURE LEADER,
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Antoine Mindjimba is a Partner in the People Advisory Services practice in Toronto and has over 16 years of consulting experience. He specializes in EDI, Culture Evolutions, Transformative Leadership and Change Management.

Antoine is EY Canada National Culture Evolution and EDI Service Offering Lead, Global DE&I Markets Network Leader and leads the Work Force Advisory Team in Montreal. His purpose in life is to set up environments to unleash the power in humans to achieve the extraordinary; environments where individuals feel equipped, empowered and excited about an ever-changing business world. Additionally, as a professional international ice hockey player for 22 years, he brings unique insight into motivating and developing high-potential individuals and teams.

Antoine holds a master degree in Strategy and Business from ESSEC (France) and an MBA (Finance and Behavioral Economics) from the University of Chicago Booth.