

# Cyber Security

## in Aluminium Workshop

Coombe Abbey, Coventry | 26-27 February 2020



### Hosted by Dr Alexeis Garcia-Perez, Associate Professor in Cyber Security Management

– in association with the Future Aluminium Forum

Recent Socio-economic conditions, coupled with advancements in technology (both Cyber – IoT, Big Data, AI and Physical – Additive manufacturing, automation, remote sensing) are disrupting the traditional business models and redefining how businesses compete or survive in the future.

Accompanying this revolution, however, are cyber security threats that impede business growth and innovation within the sector.

Do you know what measures your company should be taking to protect its operations, plants and people?

This dedicated Workshop will bring together manufacturers, processors and OEMs to gain an understanding of the unstructured and diverse nature of cyber attacks in the Aluminium sector, their potential impact in terms of costs and damage, to the organisation and industry, and the need for new approaches to manage the digital risks.

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## A Cyber Security Management Strategy and Service Platform for the Aluminium Sector

**On the second day of the Workshop, participants will collaborate in a facilitated exercise to develop the basis for a holistic approach to cyber resilience and the mechanism for its implementation.**

DAY TWO

This cyber security solution will have five main interdisciplinary pillars, as follows:

- 1. Technology:** A dynamic set of cyber security technologies that provide Aluminium extraction and machining infrastructures with new capabilities for the protection of digital assets
- 2. Organisational:** A cyber security management strategy that helps the Aluminium ecosystem implement governance and operational policies to combat cybercrime
- 3. Legal:** Cyber security policy guidelines and legal obligation framework for the harmonisation

- of practices across all stakeholders within the sector
- 4. Cyber security knowledge:** A knowledge management strategy that enhances cyber security capabilities and the sharing of good practices across individuals, teams, and organisations in the Aluminium sector
- 5. Cooperation and communication:** A platform and policy guidelines for the sharing of threat information, attack scenarios and best practices across the Aluminium sector.

[www.FutureAluminiumForum.com/cyber-security-in-aluminium-workshop](http://www.FutureAluminiumForum.com/cyber-security-in-aluminium-workshop)

## Cyber Resilience and the Aluminium Sector

DAY ONE

**The first day of the Workshop will be aimed at raising an understanding of the multidimensional nature of cyber security in the Aluminium sector and the role of the management board in improving the digital resilience strategy and capabilities of the sector.**

The first session will include a number of speakers (scholars, practitioners and industry representatives) who will characterise the current cyber security landscape and its potential impact on the Metals sector. Their views will focus on the following topics:

- Cyber security risks and risk management strategy for the sector
- Security, privacy and data protection principles and standards for the sector
- Cyber security technologies and their integration with operational and information technologies in the sector
- Cyber security knowledge management and co-operation across the sector
- The need for a cyber security training strategy for the sector.

The second session of the day will be dedicated to a cyber security management exercise whereby participants will put in place a cyber security incident management response for their organisations and the sector. This exercise will provide participants with an understanding of the cyber security and resilience challenges for their particular organisations and the role of the management board and the workforce.

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## Workshop Programme

### 26TH FEBRUARY 2020

- 10:00 **Registration**
- 10:30 **Introduction and Welcome**  
by Dr Alexeis Garcia-Perez and Nadine Bloxsome
- Cyber Resilience and the Aluminium sector**  
*Expert presentations covering the current cyber security landscape and its impact on the Aluminium sector; the different dimensions of cyber resilience in organisations in the Aluminium sector; and a case study of a successful approach to cyber security as part of the implementation of the digital transformation strategy required by the Aluminium sector today.*
- 13:00 **Lunch**
- 14:00 **Cyber Security Management Simulation Exercise**  
*Enabling participants to work collaboratively in the management of a cyber security incident affecting both the operational and information infrastructure in the organisation.*
- 15:00 **Networking Break**
- 15:30 **Simulation Exercise Continues**
- 17:00 **Close of Day**
- 19:00 **Dinner (Time TBC)**

### 27TH FEBRUARY 2020

- 09:00 **Developing a Cyber Security Management Strategy and Service Platform for the Aluminium sector**  
*Collaborative work on a holistic approach to cyber resilience in the Aluminium sector, which includes not only its technology but also the human and organisational dimensions.*  
  
*An advisory board for cyber security in Aluminium is expected to emerge from this exercise.*
- 10:30 **Networking Break**
- 11:00 **Strategy Session Continues**
- 12:30 **Lunch**
- 14:00 **Close of Event**

In association with the Future Aluminium Forum and Coventry University



## REGISTER

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