

IRSC 2022

INTERNATIONAL RAILWAY SAFETY COUNCIL

SEVILLA, OCTOBER 16-21, 2022

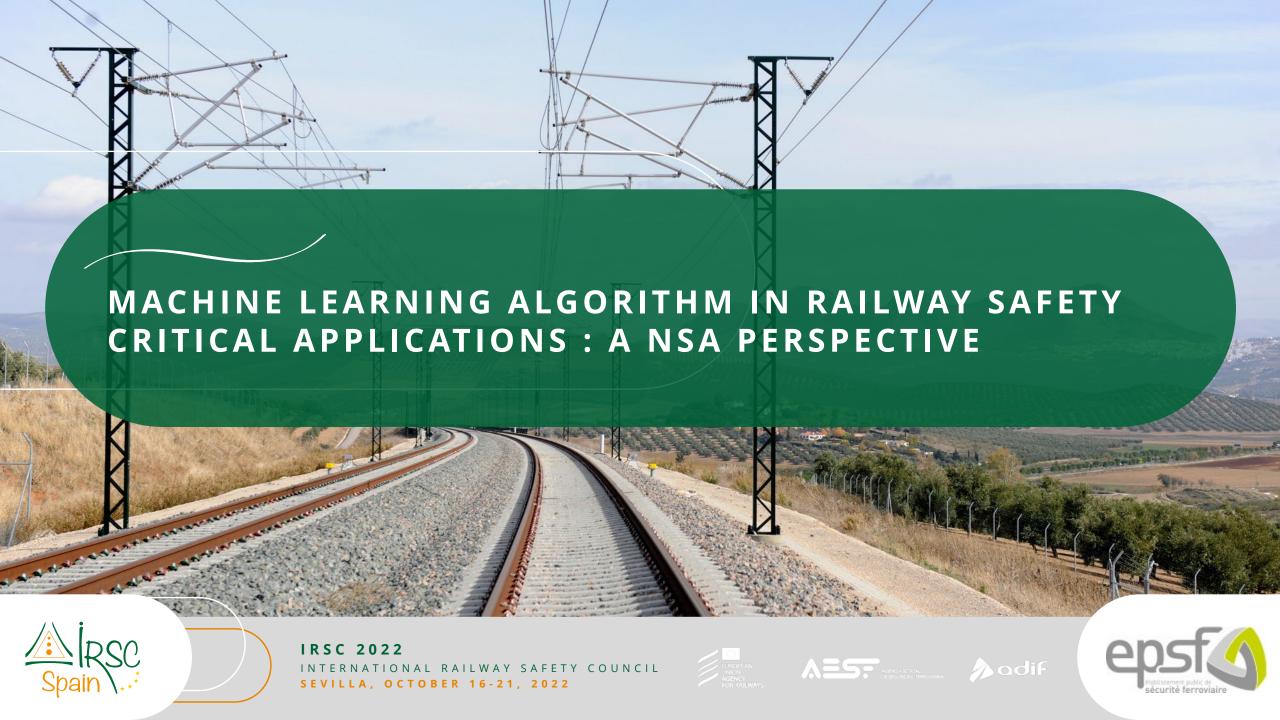


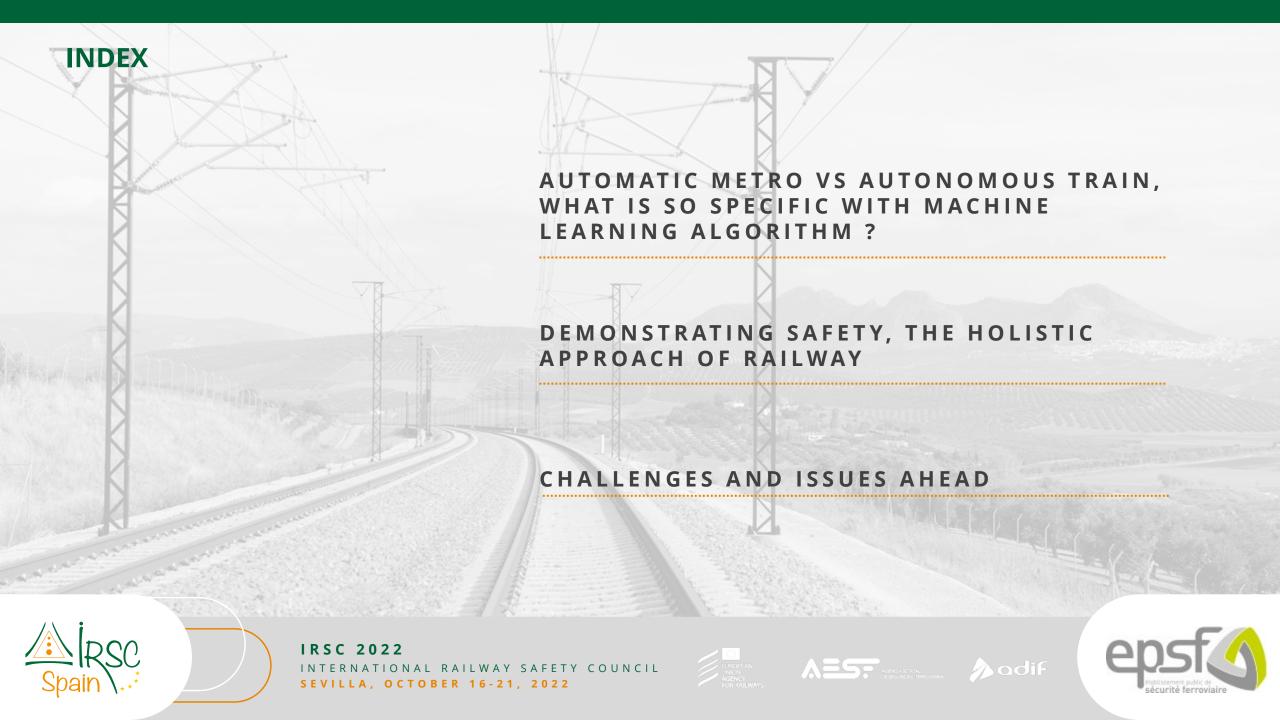


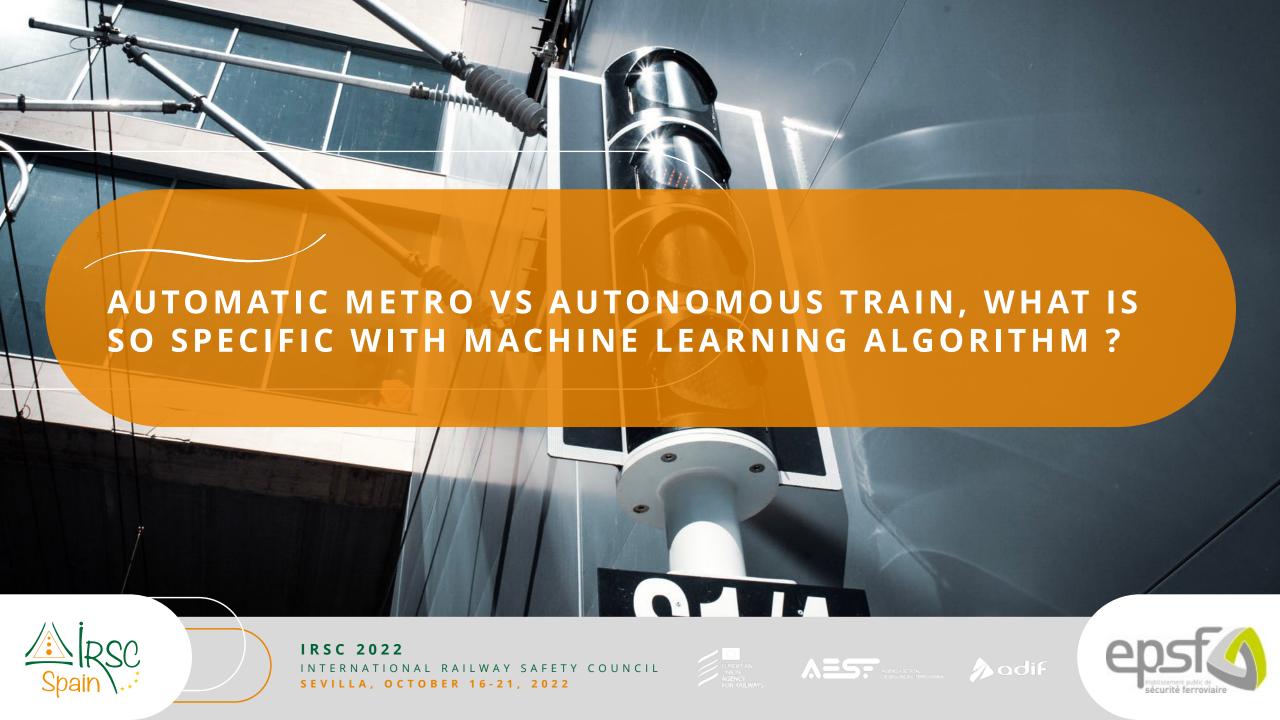












Automatic metro vs autonomous train – What is the difference?

• Automatic metro :





• Autonomous train:











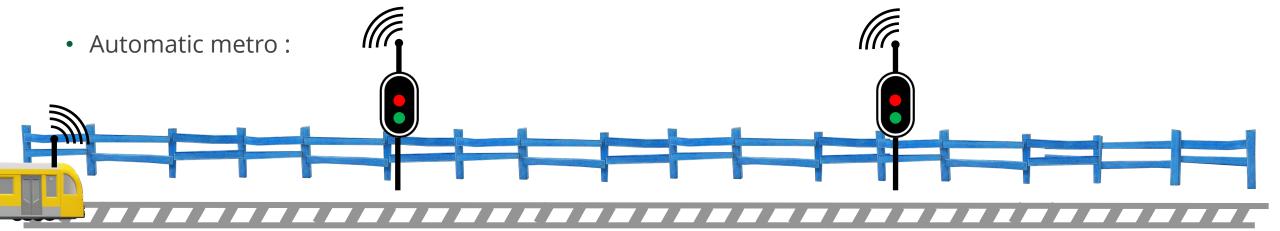








Automatic metro vs autonomous train – What is the difference?



• Autonomous train:







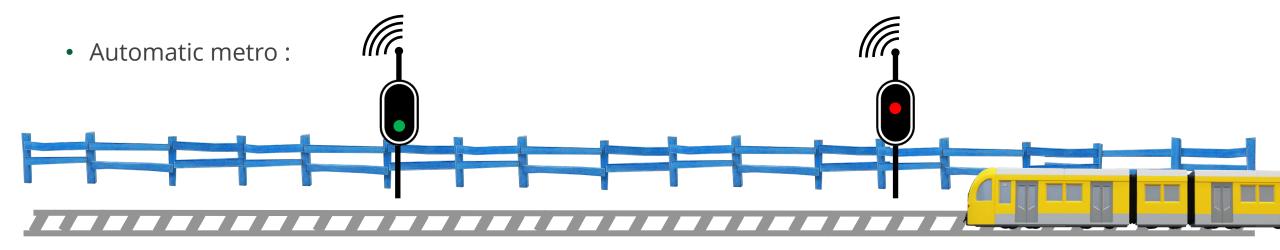




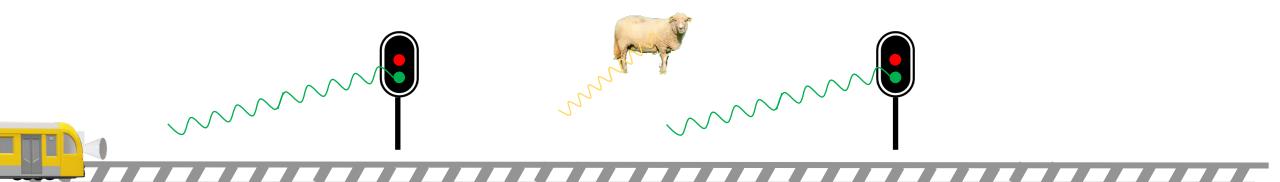




Automatic metro vs autonomous train – What is the difference?



• Autonomous train:















Al and ML, what are we talking about exactly?

• What is artificial intelligence (AI)?











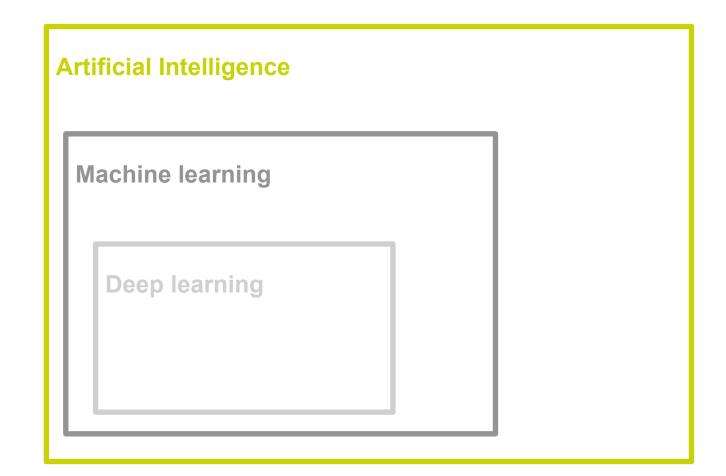






Al and ML, what are we talking about exactly?

- What is artificial intelligence (AI)?
- What is machine learning (ML)?















What is so specific with ML?

• "Classic" algorithm:



• Machine learning algorithm:







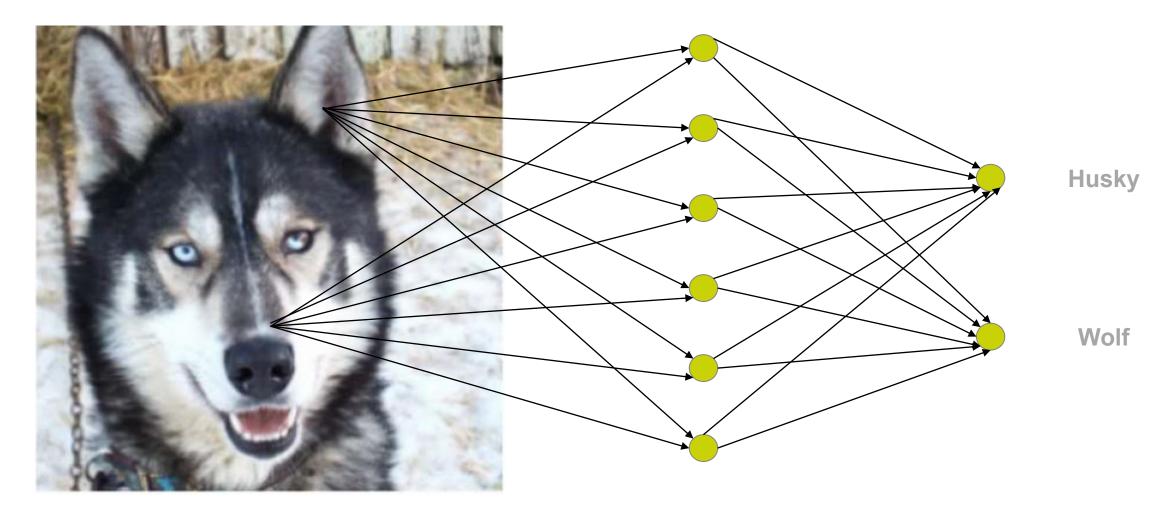








What is so specific with ML?











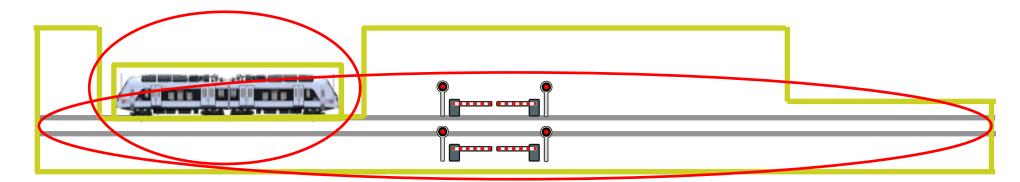






Authorization within the european interoperable regulatory framework

- Technical systems :
 - Fixed installations;
 - Vehicle;
- Entities (safety management system SMS);
 - Railway undertaking;
 - Infrastructure manager;









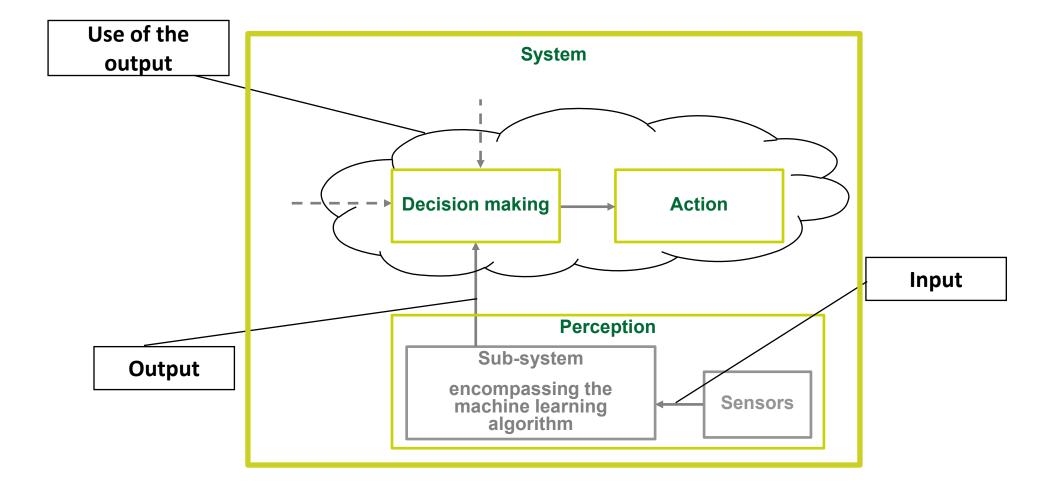








A holistic approach















SEVILLA, OCTOBER 16-21, 2022



Certifiable

Auditable









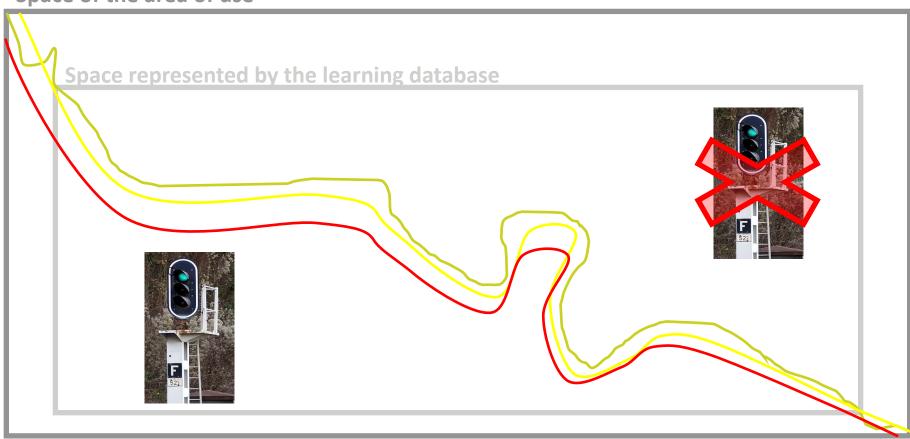




Certifiable



Space of the area of use















Certifiable











Tomorrow?













Certifiable

Auditable













Auditable

Explainability





Operator using a tool working with ML





Immediate accident analysis

In-depth accident analysis



Time













Certifiable

Auditable





















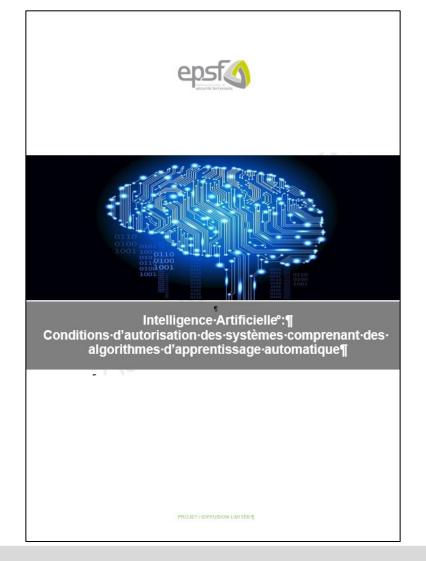








Position paper...coming soon...



















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