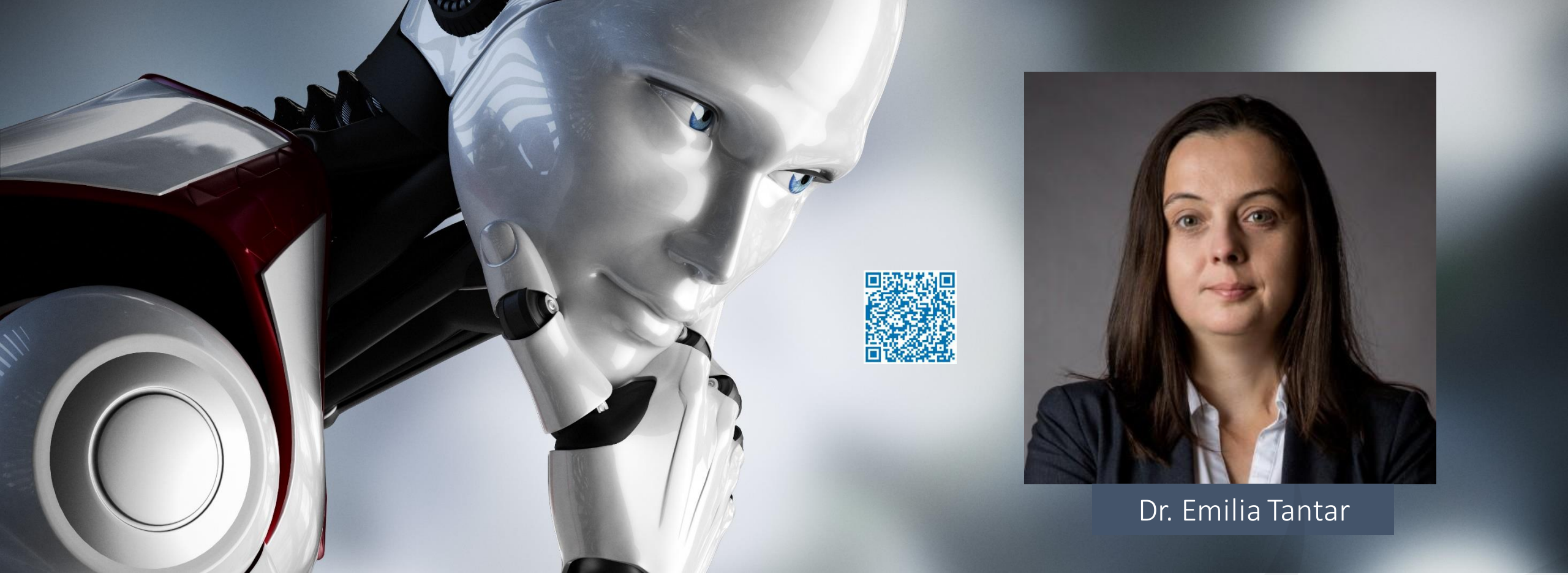

Dr. Emilia Tantar

How the AI national policies supported our AI SME journey

Dr. Emilia Tantar, *Chief Data and Artificial Intelligence Officer/co-founder*

Black Swan LUX S.A.

STATEMENT OF PURPOSE

Black Swan LUX

The purpose of the herein document is to offer a high-level view on aspects within AI standardisation, business implications [compiling a number of normative documents and articles on AI], with a main focus on societal and business-related implications. The presentation is intended for dissemination within the limits of the National Policies seminar organized by OECD and European Commission AI Watch. Where applicable, [public domain] external materials are credited and links are provided to allow referring to the respective originating works.

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Black Swan LUX S.A. - our SME journey in trustworthy AI

- July 1st 2015 : jump start of a Proof-of-Concept FNR/Uni.lu
- December 2015-February 2016 : first pilot with Senior Living Group, Edelweiss
- 2016-2017: pilot run with CPAS Woluwe Saint-Lambert (Brussels), 1st client
- 2017 - Launch of SafeLiveApp (www.safeliveapp.com) and framework agreements with various service providers

Our differentiators (2015-2017)

- High-level of trustworthiness
  - top-notch robustness, privacy and safety (i.e. no data transfer between wearable devices and cloud)
- Our advanced AI Know-How

Does the market care about AI trustworthiness in 2015-2017?

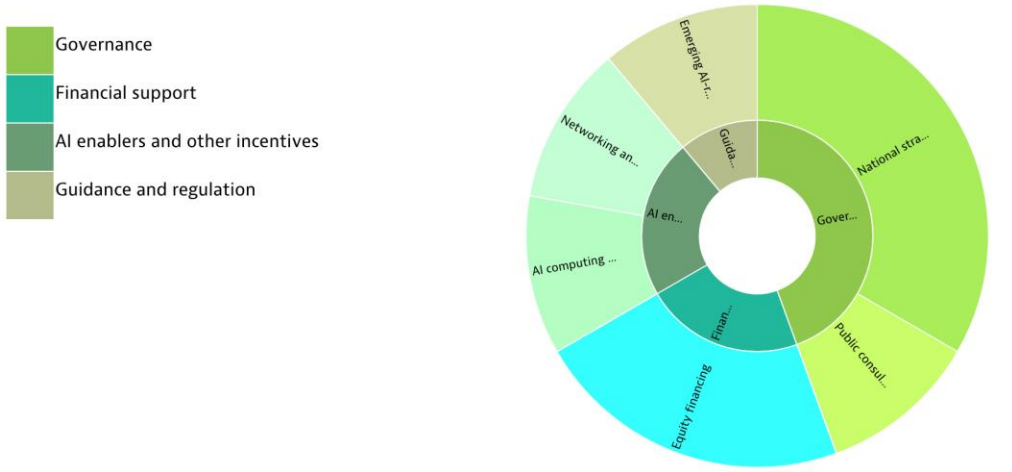
...not really

What role played OECD.AI and the EC AI Watch?

OECD.AI and AI watch supported us finding the right timing and the best way our strategy could align with the national AI strategy and EU AI strategy for scaling.

- We could with a quick look identify vectors of interest: human capital related services and standardization, support regulatory efforts.
- We engaged with the StandICT and EU Observatory of ICT Standards.

oecd.ai/dashboards/countries/Luxembourg



knowledge4policy.ec.europa.eu/ai-watch/luxembourg-ai-strategy-report_en#regulation

Luxembourg AI Strategy Report

PAGE CONTENTS

AI report
Human capital
From the lab to the market
Networking
Regulation
Infrastructure
AI to address societal challenges
Monitoring and future update
References
Links

AI report

In May 2019, the Government of Luxembourg published its national AI strategy, entitled Artificial intelligence: a strategic vision for Luxembourg (Luxembourg, 2019). The strategy is part of a broader policy programme called Digital Luxembourg aiming at coordinating and strengthening Luxembourg's efforts in the digital transformation towards the development of a solid digital society.

The strategy acts as a vision paper outlining the ambitions of Luxembourg in the field of AI and presenting strategic policy recommendations in key areas to achieve them. The policy vision of Luxembourg's strategy is to support the development of a human-centric AI based on an efficient and sustainable data-driven ecosystem. It aims at positioning Luxembourg as a leading digital society in the world. To achieve these objectives, the strategy advances a range of policy recommendations in the following key areas:

- Enhancing the skills and competencies in the field of AI and providing opportunities for lifelong learning;
- Supporting research and development of AI, transforming Luxembourg in a living lab for applied AI;

* OECD.AI (2021), powered by EC/OECD (2021), database of national AI policies, accessed on 21/06/2021, https://oecd.ai
* Van Roy, V., AI Watch - National strategies on Artificial Intelligence: A European perspective in 2019, EUR 30102 EN, Publications Office of the European Union, Luxembourg, 2020, ISBN 978-92-76-16409-8, doi:10.2760/602843, JRC119974.

AI Standardization for an SME – our path

Our strategy:

Select 3-4 relevant standardisation initiatives and actively engage.

- CEN and CENELEC JTC 21:

Ad-hoc on AI conformity assessment

- EU Observatory of ICT Standards

- IEC SEG 10
- ISO/IEC JTC1/SC 42

- *National level*

- European standards from *CEN CENELEC* Focus Group on AI and JTC 21

- International standards from *ISO*/IEC and IEC SEG 10

Black Swan LUX S.A. - How the National AI policy supports our path

Anomaly detection
Black Swan LUX CORE
Semantic agnostic

Human capital *(We trust what we understand)*

- Build trust at the board level
- Black Swan LUX S.A. supports up-skilling for the boards
- Extended our offer as to include training for industrial actors, focusing on boards
- Collaboration being prepared with ILA - Institut Luxembourgeois des Administrateurs and other organizations in Luxembourg

Framework for trust

- Black Swan anomaly detection core and simulated data can serve as test bed for AI conformity assessment, we can serve as testing and experimentation sets

Standardization

- Luxembourg supports SME participation in standardization, free of charge
- Building on our experience we actively engage in standardization

Take aways

Skills

Standards to support regulation

Find your own path, no unique solution for SMEs

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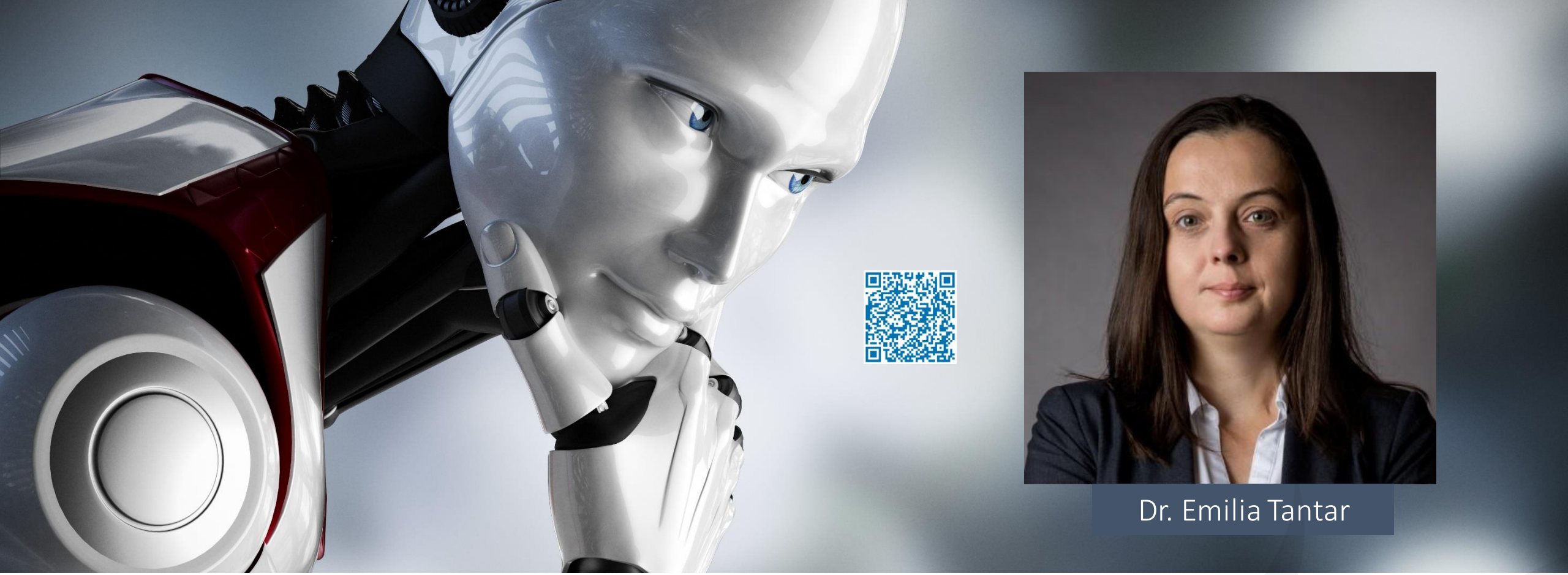

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Thank you!