

Welcome to the
ITEA Technology webinar

Cyber-Physical Metaverse in healthcare

26 May 2026, Online
Dirk Elias, ITEA Chairman



Cyber-Physical-Metaverse in healthcare

Meet the contributors

ITEA Technology webinar



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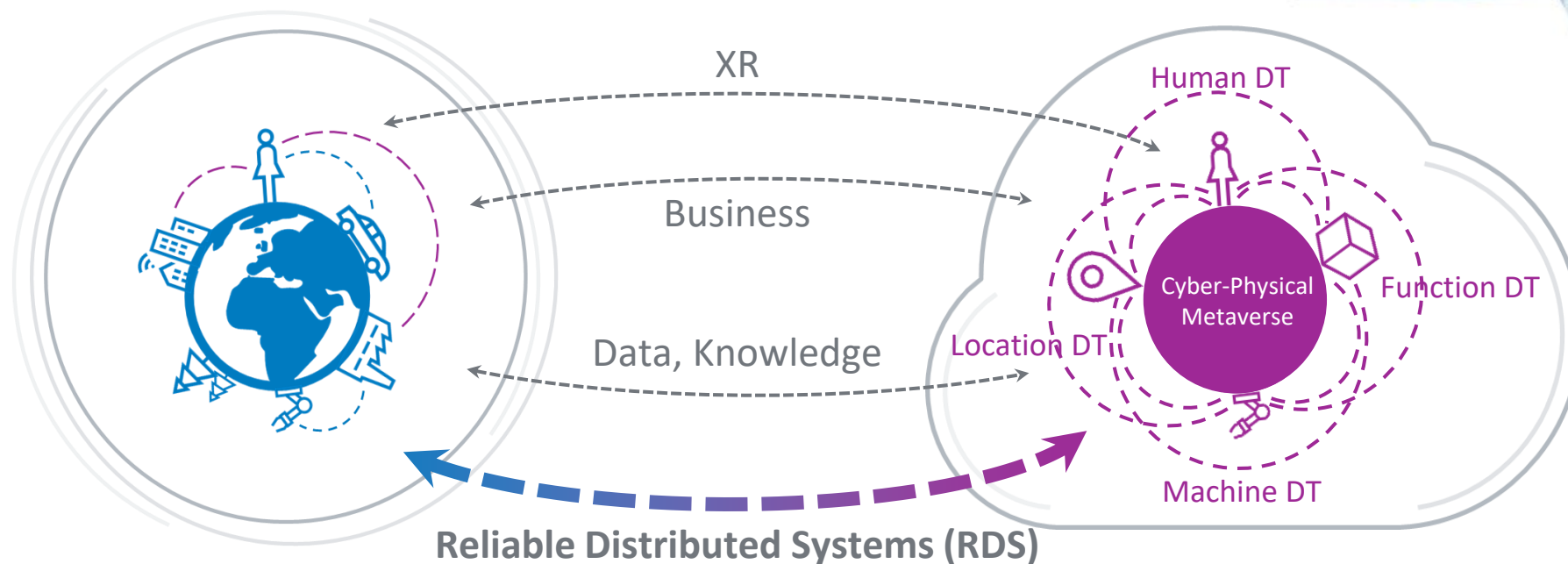
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PHILIPS



Cyber-Physical-Metaverse in healthcare

Recall & background



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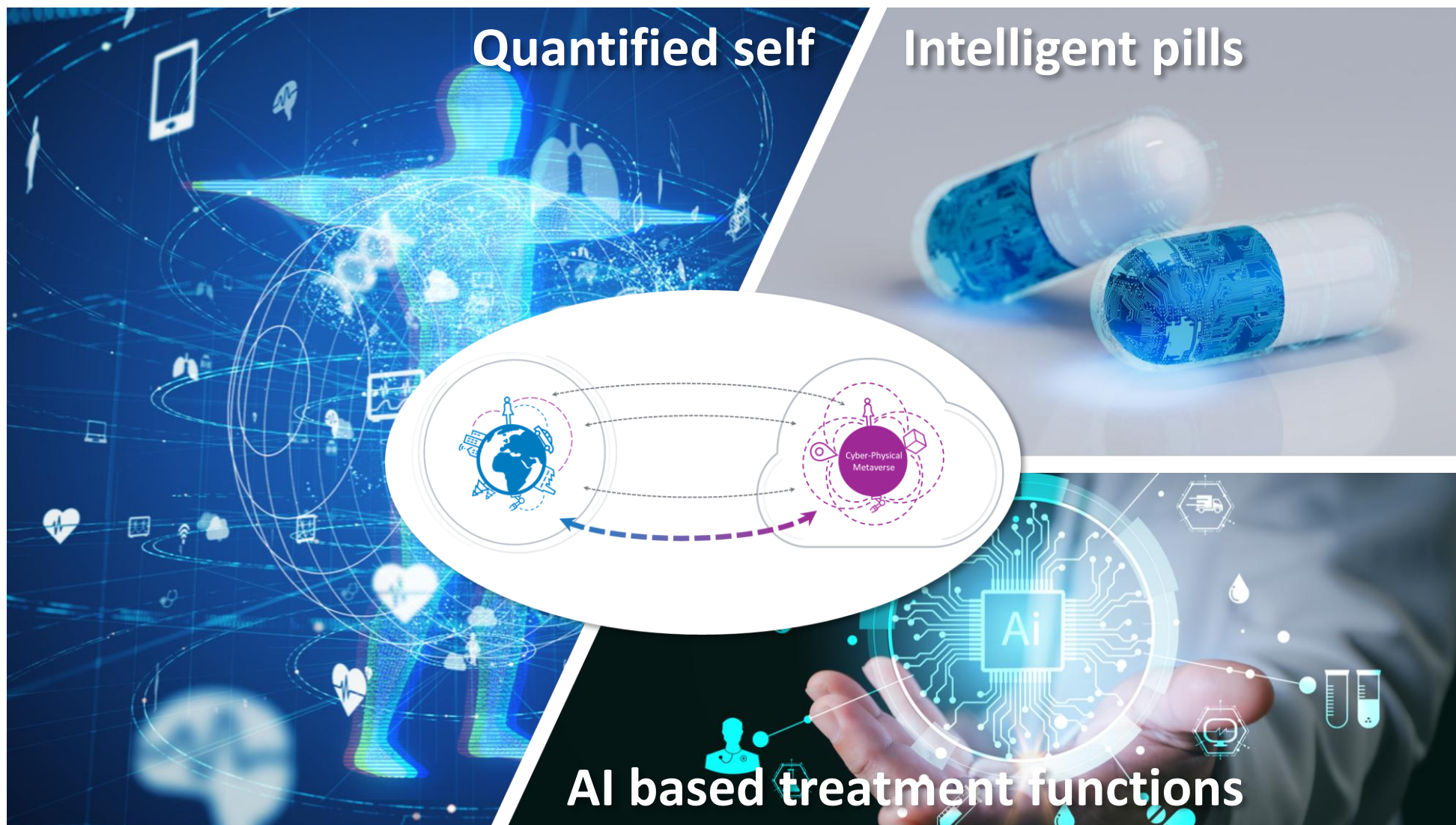
No question if, only when!

Check: <https://itea4.org/itea-technology-webinar-cyber-physical-metaverse-introduction.html>

Cyber-Physical-Metaverse in healthcare

Setting the healthcare scene (1/2)

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Cyber-Physical-Metaverse in healthcare

Setting the healthcare scene (2/2)



- Giant step forward for early detection and prevention of serious diseases. Leading to higher life expectancy and quality, higher productivity as well as lower health care system cost.
- Many low hanging fruits allow for an immediate introduction, followed by incremental extension to more complex solutions.

→ One example: Heart failure

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No wait to start! One example

- In December 2024, EU has adopted Council Conclusions that will set a milestone for the continent's cardiovascular health.
 - Cardiovascular disease (CVD):
 - Is the leading cause of death globally, accounting for over 1.7 million deaths annually
 - Costs its economy an estimated €282 billion/year
 - Heart failure stands for 10+% of the total CVDs
- Many CPM solutions can be implemented already now!
- Vast savings potential for health care systems and economy

NOTE

From:	General Secretariat of the Council
To:	Council
Subject:	Conclusions on the improvement of cardiovascular health in the European Union - Approval

1. On 28 August 2024, the Presidency submitted to the Working Party on Public Health a set of draft Council conclusions on the improvement of cardiovascular health in the European Union¹.
2. Among several events on this topic, the High-Level Conference on Cardiovascular Health on 3-4 July and the informal meeting of Ministers of Health on 24-25 July 2024 provided input to the draft Council conclusions.
3. The Working Party on Public Health examined the draft Council conclusions at its meetings on 9 September, 25 September and 10 October 2024.
4. Following an informal written consultation concluded on 23 October, the Working Party on Public Health has reached a preliminary agreement on the Presidency compromise text for the Council conclusions as set out in the Annex to document 14661/24.

¹ doc. 12790/24

5. On 6 November 2024, the Permanent Representatives Committee confirmed the agreement reached in the Working Party on Public Health and agreed to submit the text after adjustment of a reference to the EPSCO Council of 3 December 2024 for approval.
6. The Council is invited to approve, at its session on 3 December 2024, the Council conclusions on the improvement of cardiovascular health in the European Union, as set out in the Annex to this note.



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Too complex?

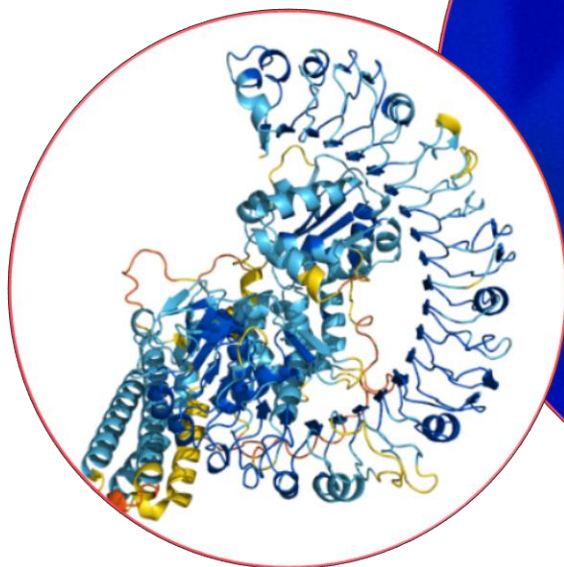
- What about the complex scenarios, not only for healthcare, but also other domains?
- Is the implementation of the CPM and the integration of the giant number of technologies and building blocks too complex to lead to a reliable and market ready solutions?



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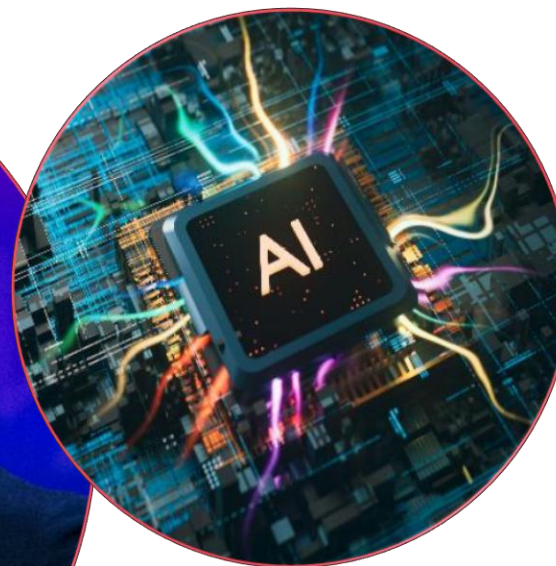
Mind Ray Kurzweil & Agentic AI



<https://alphafold.ebi.ac.uk/>



https://en.wikipedia.org/wiki/Ray_Kurzweil



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Thank you!

