

*“Stay Ahead of the Game:
Transformation in Clinical Trials
in the Age of Artificial Intelligence.”*

**ANNUAL
CLINICAL TRIALS
SYMPOSIUM**
November 8th, 2024

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Status Quo and Future Prospects - National Strategy for Developing Clinical Trials in Romania

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08 Nov 2024 Bucharest



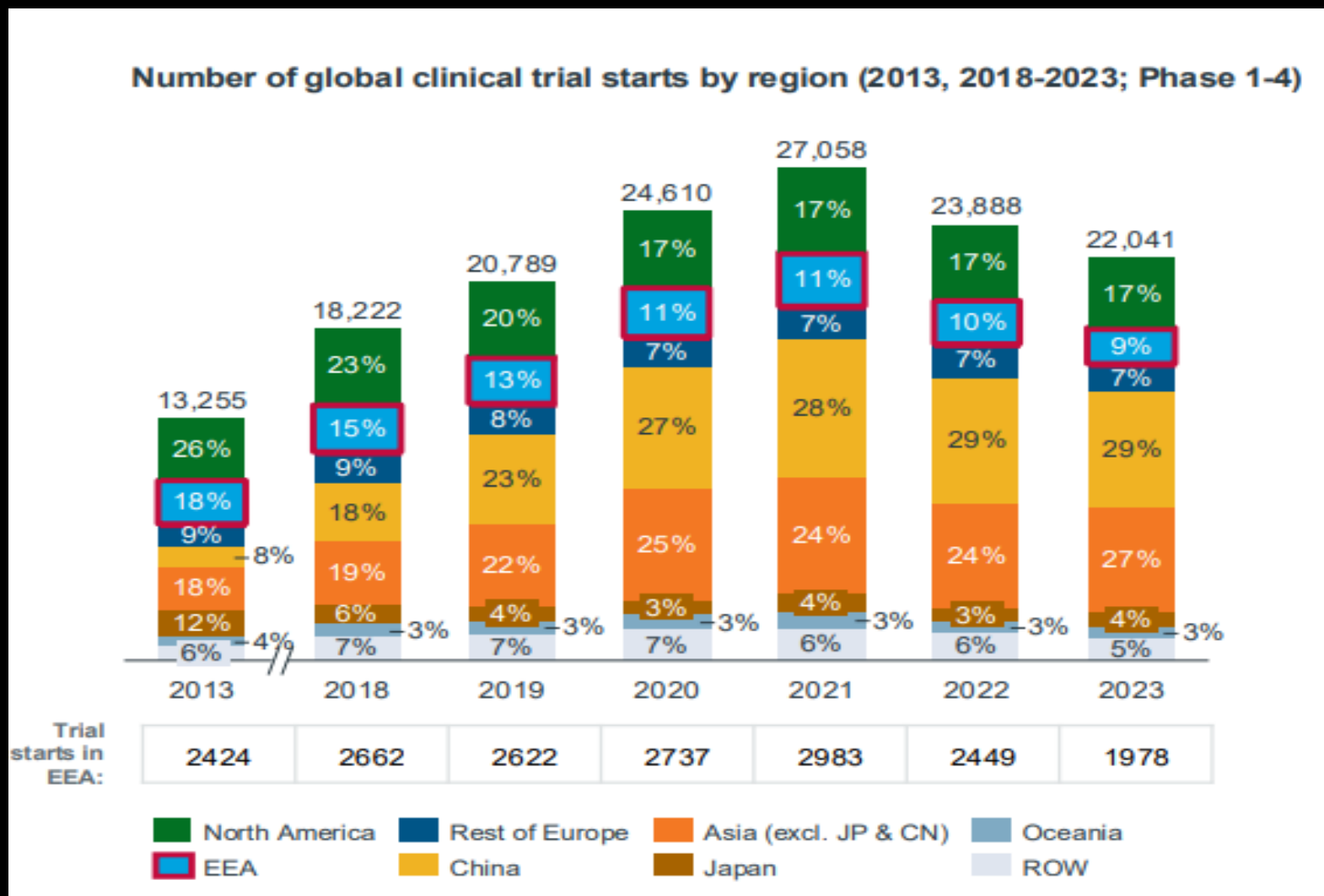
ASOCIAȚIA COMPANIILOR CONDUCĂTOARE
DE STUDII CLINICE DIN ROMÂNIA

The Joy Ride is over...

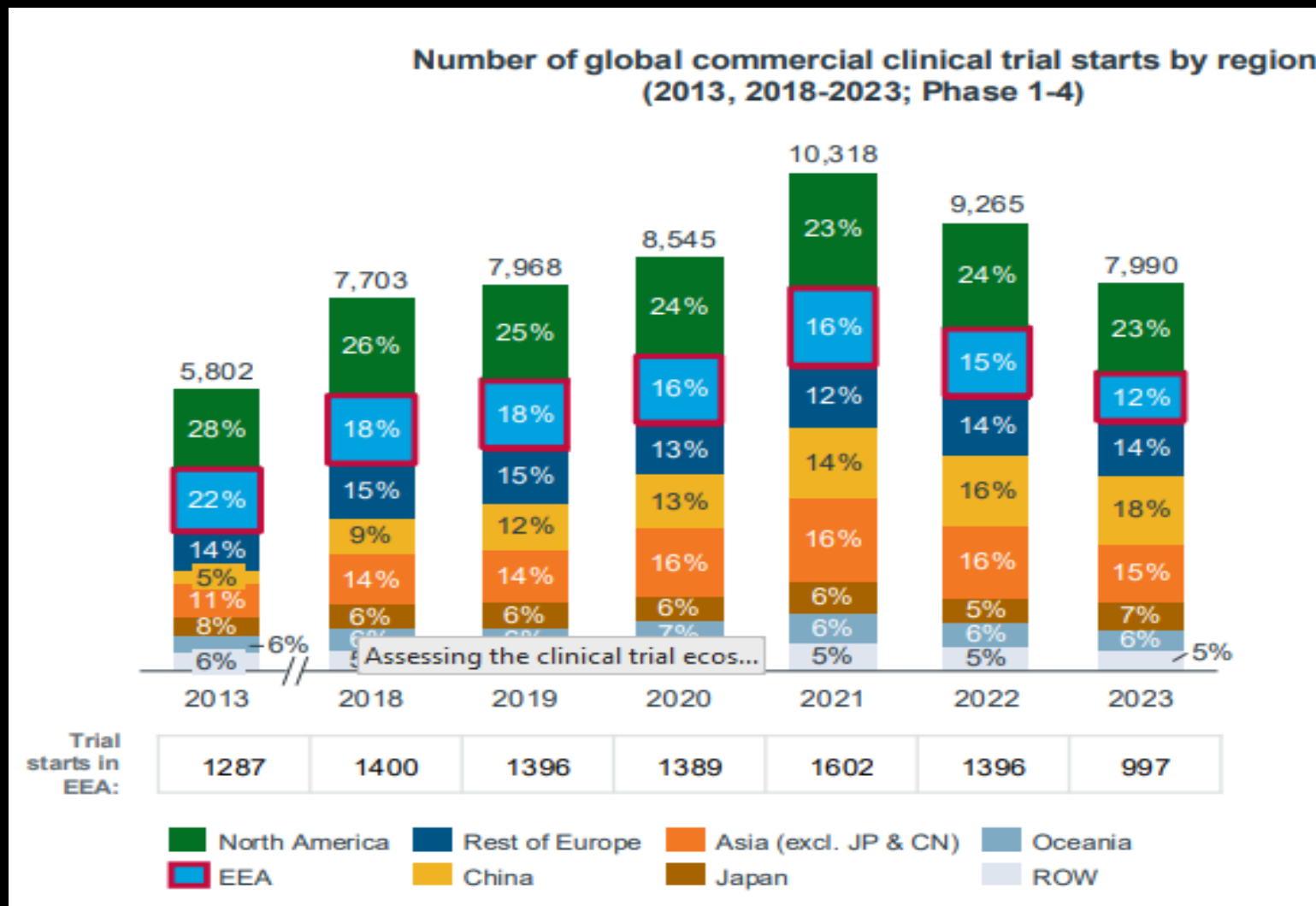
- After years of easy money and heady growth, funding is slim, and stocks are down
- Layoffs and shutdowns hit biotech industry in U-turn
- The global clinical trial ecosystem is evolving; Europe's share is declining, while Asia is emerging as a major location for new clinical trial starts
- * In oncology and neurology, the EEA has experienced contrasting trends to US (CAGR -22% since 2018 and -42% respectively)
- * Europe's share of Cell and Gene Therapy trials has decreased since 2013, whilst China has experienced rapid growth in the last decade
- * The number of both commercial and non-commercial paediatric trials are declining in the EEA, against a backdrop of global limited growth (CAGR -4% / -11% since 2013)
- * In rare diseases, trial starts in the EEA are declining, whereas globally, trial starts remained broadly flat in 2023 compared to 2019 (CAGR -4% / -12% since 2013)



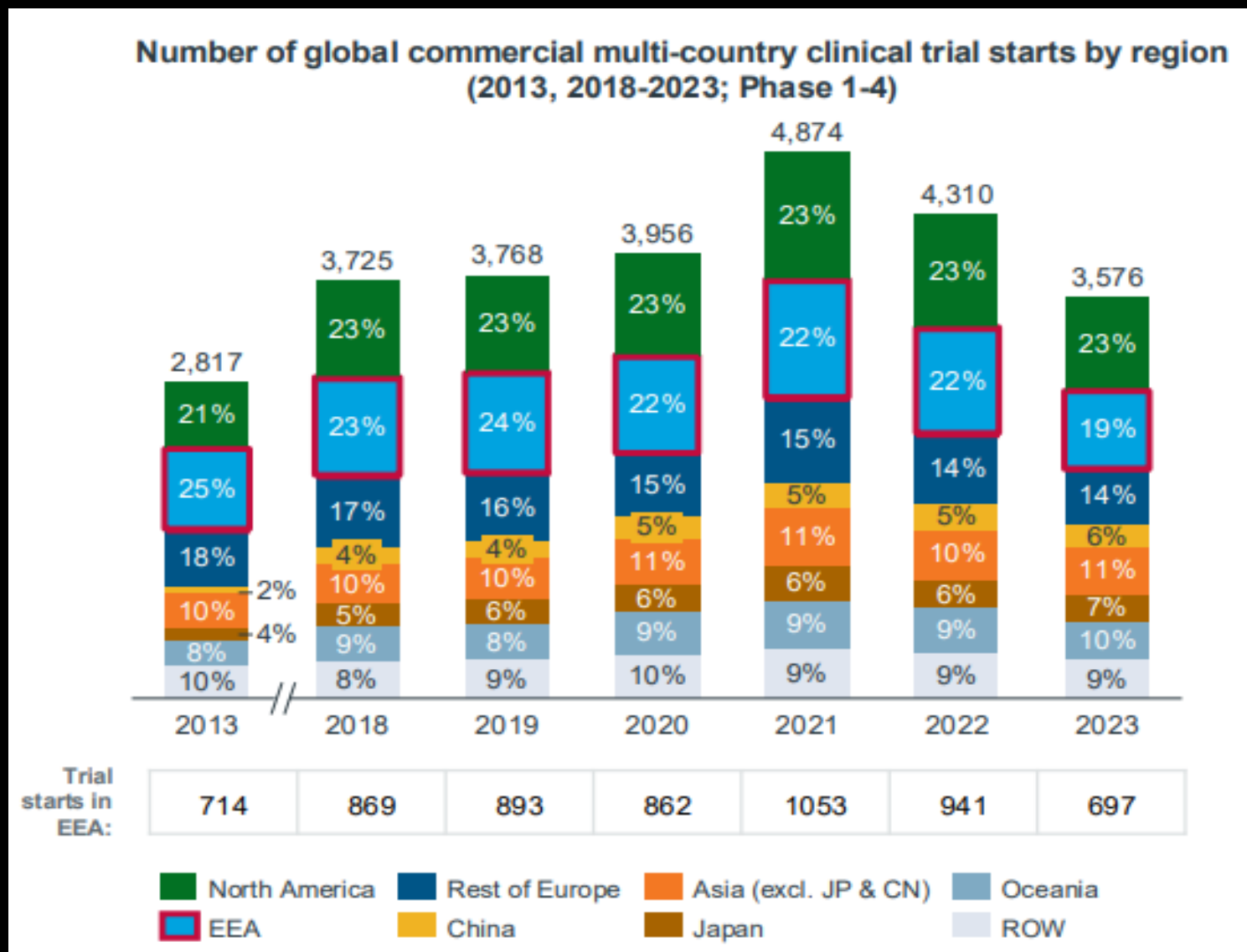
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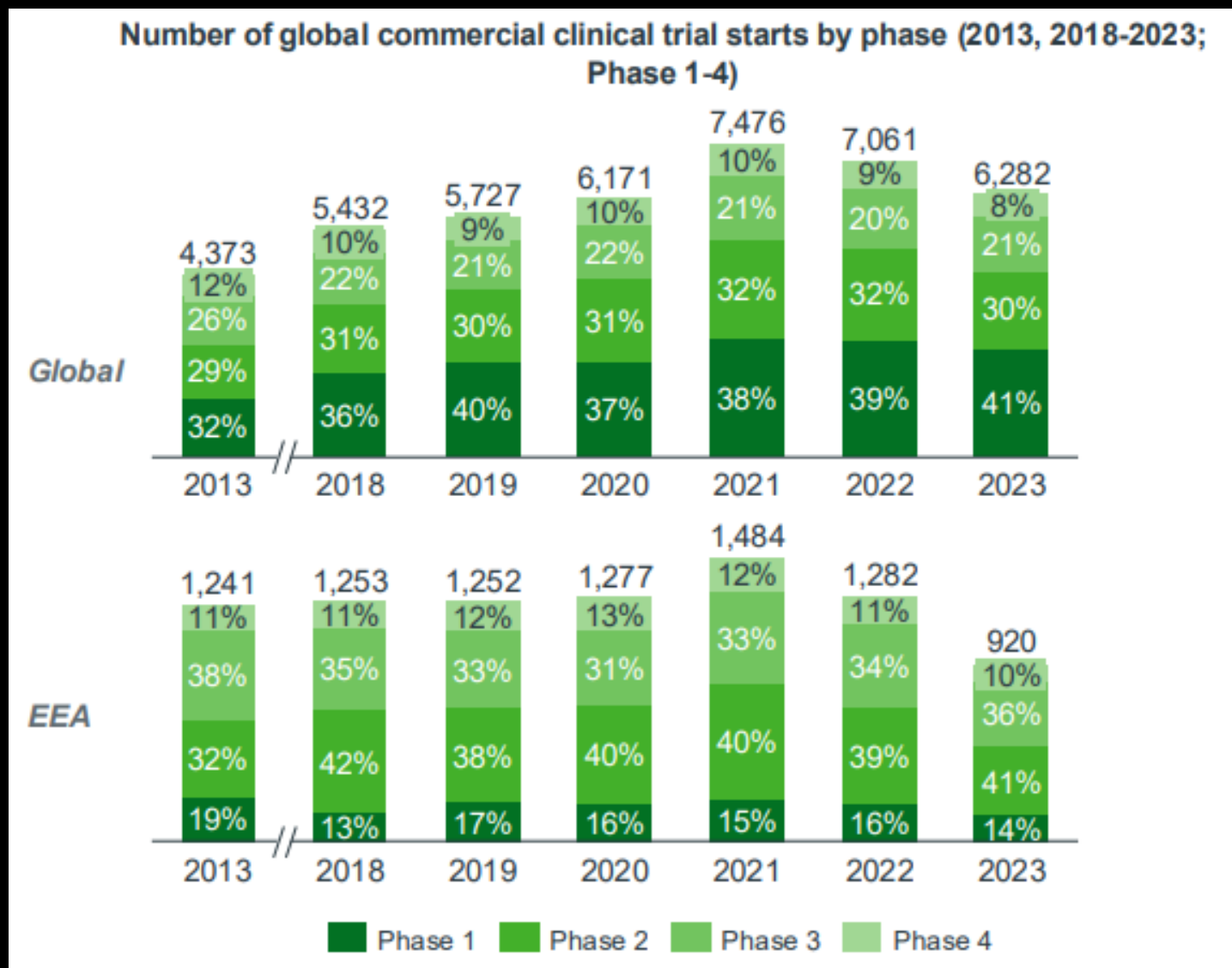
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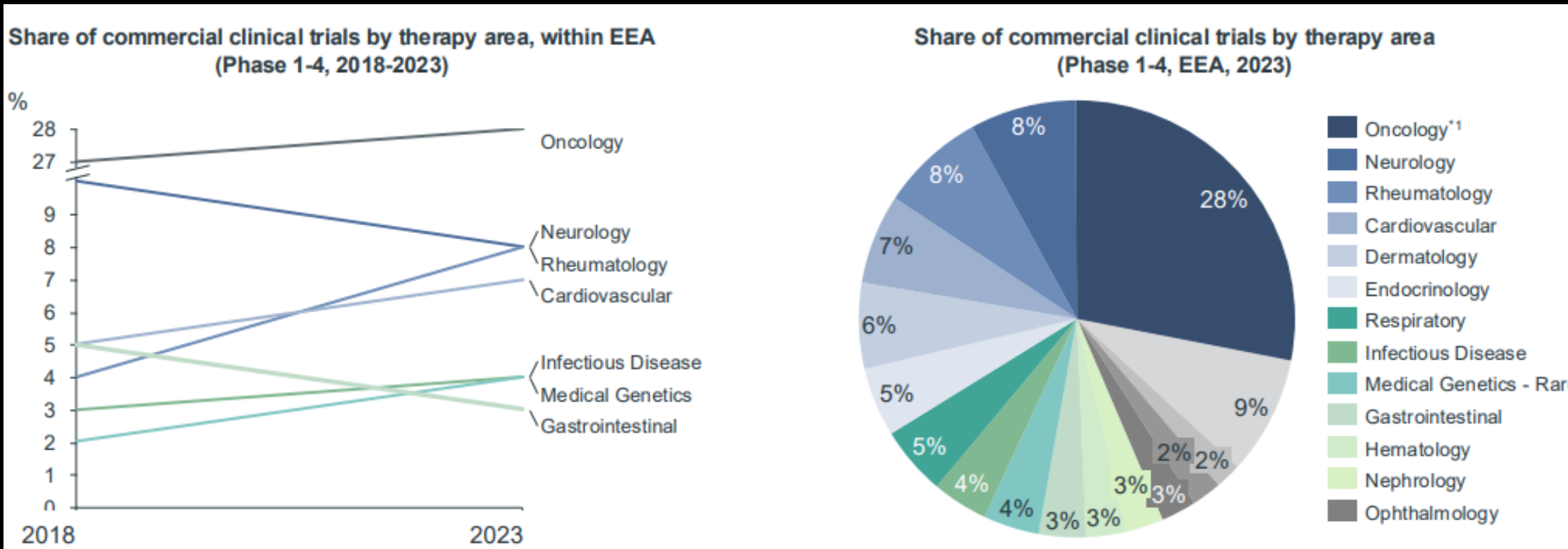
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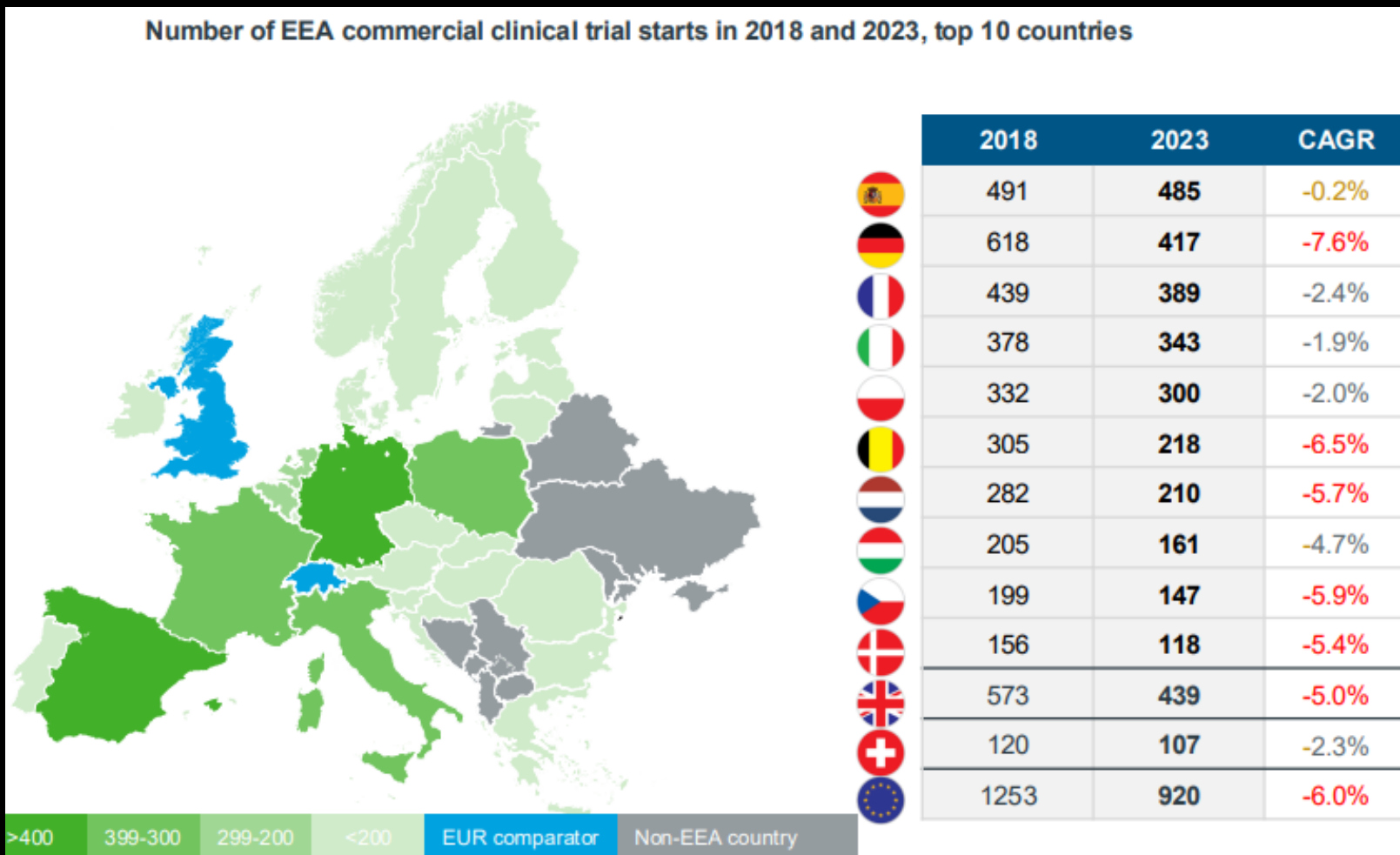
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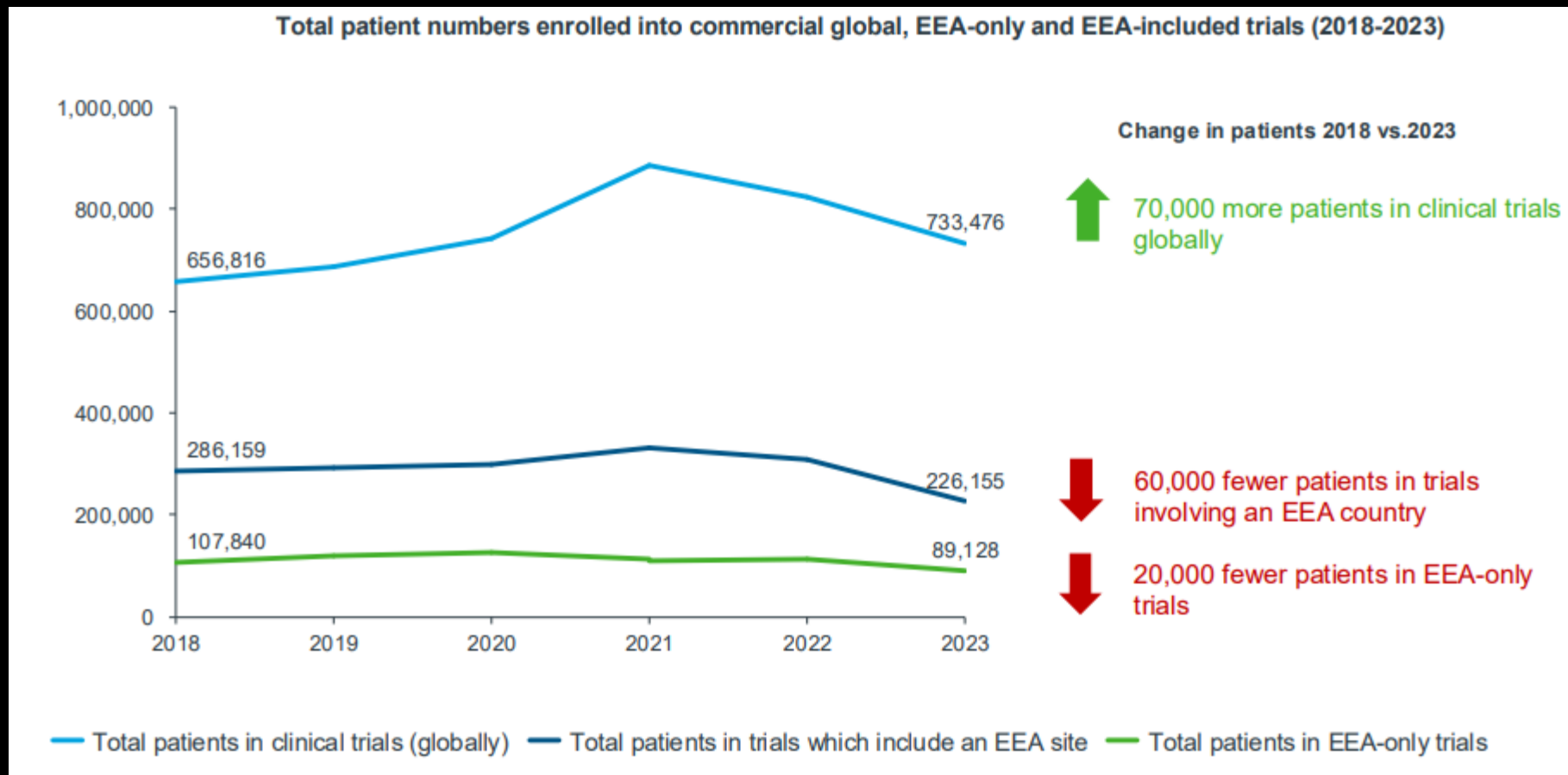
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Drug Discovery is difficult - A Shift in Scientific Paradigm

- Nascent industry “AI-Designed Drugs” - Generative AI and Digital Twins are Accelerating Innovation
- Precision Medicine and Personalized Therapies
- Expansion of RNA and Gene-Based Therapies
- Data Integration and Sharing via Cloud Technologies
- Increased Emphasis on Rare Diseases and Orphan Drugs
- Adoption of Advanced Biomarkers and Digital Health Technologies
- Patient-Centric Trial Designs and Decentralized Clinical Trials

