

The Future of Medical Devices' Regulation

DINAVISA's strategic vision
towards agility, Artificial
Intelligence and continuous
surveillance.



Our vision towards the future



Regulatory agility

Accelerated pathways
and global
harmonization



Digital health

Expansion of connected
medical technologies



Artificial intelligence security

Auditable and transparent
algorithms

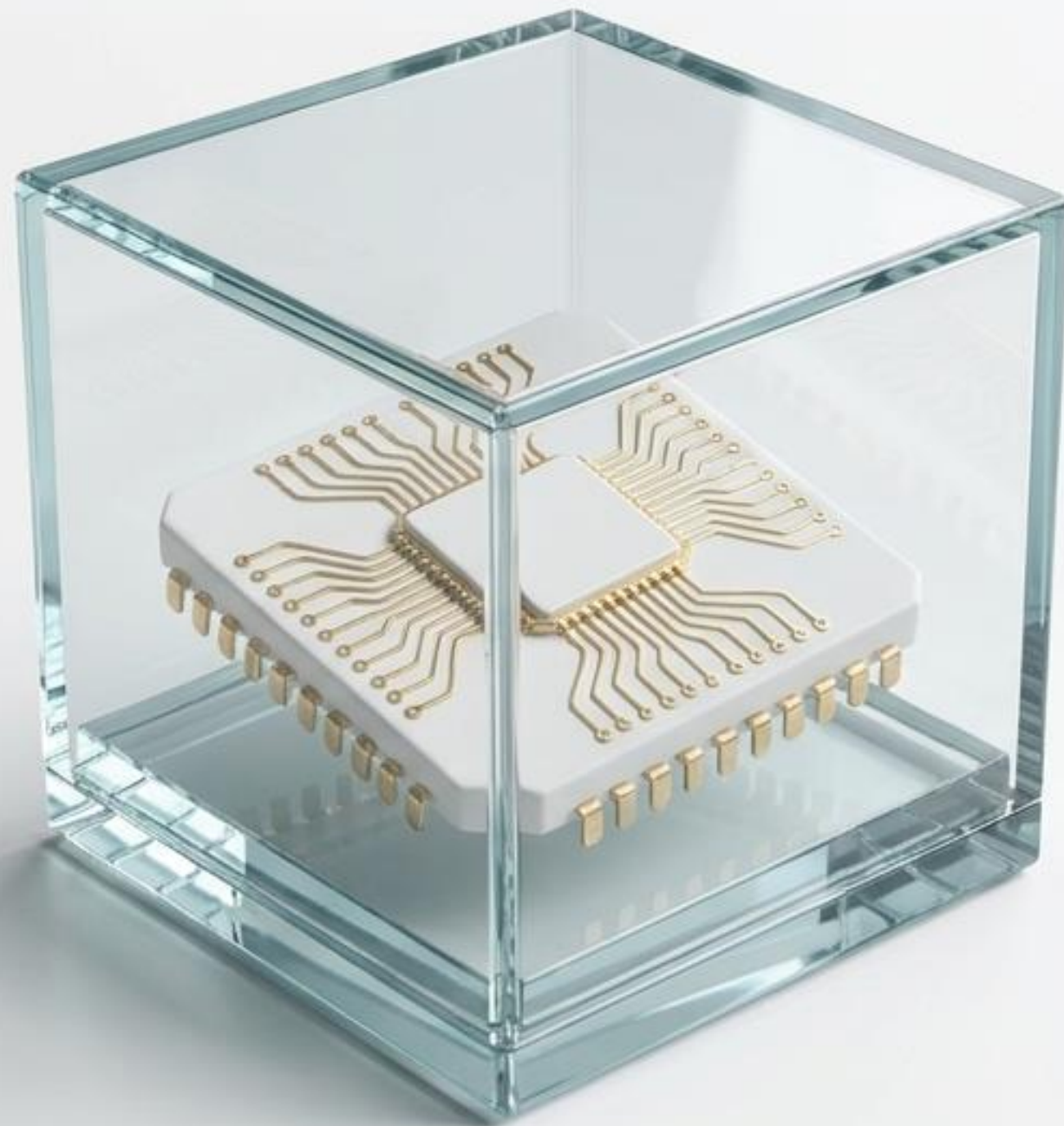


Continuous surveillance

Real-world data-based
monitoring



Pillar I: From the “Black Box” to total transparency in AI



Modern regulation on software and artificial intelligence requires health algorithms to be fully **auditable**, **free** from **bias**, and capable of consistently **justifying their clinical efficacy**.

How to justify AI's efficacy?

Analytical validation

Measures technical precision

The algorithm must process data under standard metrics on a consistent basis (sensitivity and specificity)

Proved efficacy

Impact on workflow

Practical value

Justifies that the tool reduces response times, minimizes errors and guarantees security for healthcare givers.

Clinical validation

Tangible medical outcomes

Demonstrates that real-world environment use, leads to accurate diagnostics and enhances therapeutic decisions.

Pillar II: Post-market surveillance

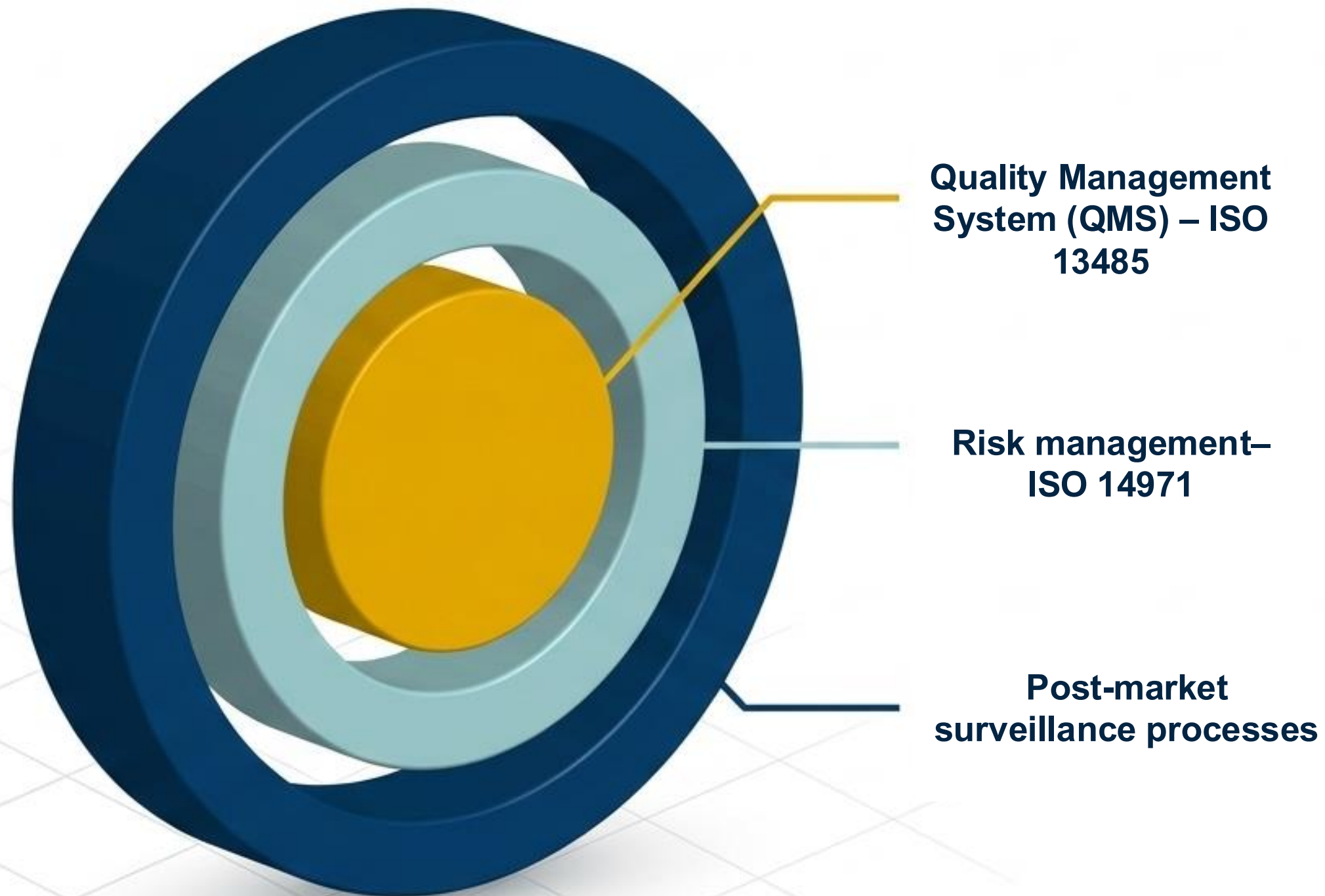
The evaluation does not end with the granting of registration

Granting of Sanitary
Registration



Monitoring devices in the real world is now a strict requirement to ensure they maintain their safety and efficacy throughout their entire operation

Indissoluble integration with the quality system



Surveillance processes have to be directly connected to the QMS core, as well as to the organization's risk matrixes. They are not parallel systems.

The Operation Cycle of Proactive Surveillance



1. Structured planning

Establish a documented plan to gather data on quality, performance and security in a systematic manner.

2. Clinical detection and monitoring

Report compilation, detection of failure trends, and long-term proactive studies

3. Periodic reports

Preparation of formal safety reports (e.g. PSUR)

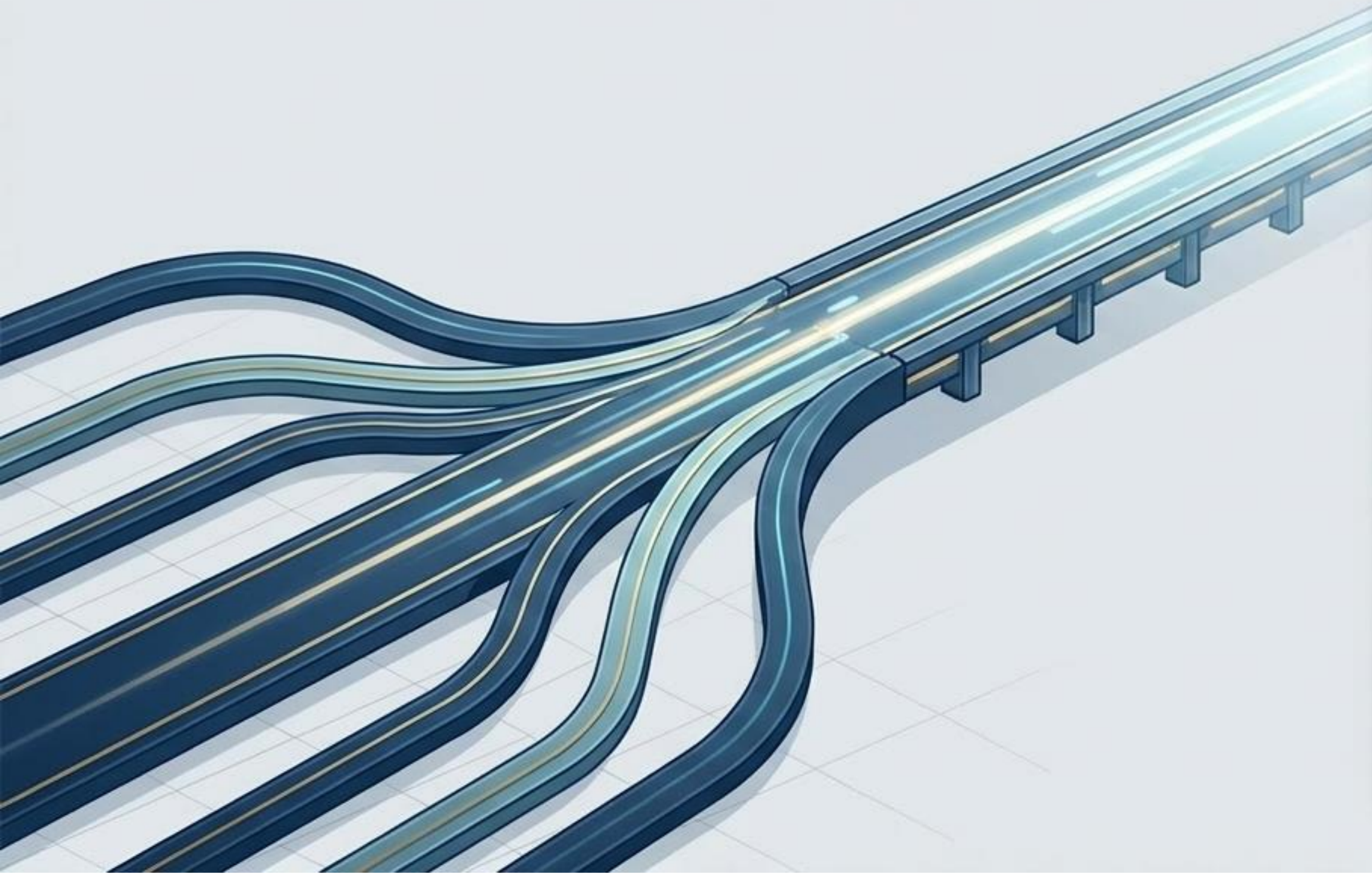
5. Timely notification

Immediate incident communication to authorities (DINAVISA) and users.

4. Corrective actions

Immediate implementation of corrective and preventive actions (CAPA) regarding identified flaws.

Pillar III: Harmonization and accelerated pathways



Homologation

Alignment with global standards

Accelerated approvals

Creation of fast pathways for innovative medical technologies

Reliance

Avoid assessment duplication by relying on the work of trusted international health agencies

The New Regulatory Ecosystem

