

➤ **Synoptic explanation of the technical elements that differentiate your proposal from SoA**

The FASTWAY solution consists of a unique combination of state-of-the-art technological components to overcome the challenges posed by DYNAMO. Currently, most research and technological developments in the digitalisation of clinical pathways have implemented **BPMN** approaches, which **require significant technical background**.¹ Furthermore, these works have not really focused on the collaborative dimension, which is a key aspect when dealing with catastrophe management.² In phase 1, FASTWAY proposes to explore new ways of overcoming these challenges by using a unique visual collaborative approach in pathway design with the latest advances in process mining.

In recent years, BI technologies have moved to provide high scale advanced analytics and visualisations. Health and care domains are still **far from adopting these technologies**, although recent work shows emerging interest in the implementation of these topics.³ The fast development of dashboards for pathway assessment is another hot topic backed by FASTWAY, and in combination with the afore-mentioned, generates an unparalleled solution. In addition, **data integration in healthcare** has traditionally been a **large obstacle** due to the significant fragmentation of systems and communication standards.⁴ FASTWAY overcomes this problem by using a unique framework that allows fast data ingestion that breaks current silos.

Finally, approaches currently **lack optimal engagement and coordination** of the different actors participating in the pathway.⁵ FASTWAY proposes a unique approach to communicate with all the actors involved in the process with a tailored notification framework that channels messages of any format. Last but not least, the AI capabilities provided by FASTWAY will enable fast skill matching and further automated task assignments according to the defined pathway. The whole core concepts are represented in the image opposite.

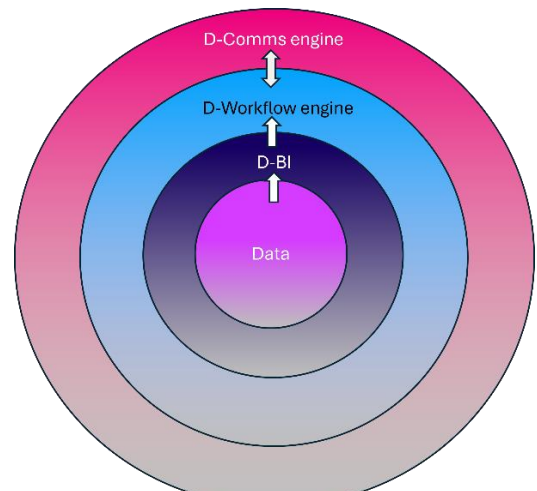


Figure 1 – FASTWAY's concept

¹ Pufahl et al. BPMN in healthcare: Challenges and best practices; Information systems, Elsevier, 2022

² Zajac et al. Overcoming challenges to Teamwork in Healthcare; Frontiers 2021

³ Batko et al. The use of Big Data Analytics in healthcare; J Big Data 2022

⁴ Feldman et al. The State of Data in Healthcare: Path Towards Standardization; J Healthc Inform Res 2018

⁵ Pannick et al. Beyond clinical management: a pragmatic model for quality improvement interventions, aligning clinical and managerial priorities; BMJ Quality & Safety 2016