





## Introduction

## A bit of context & challenges



- Current EHR solutions focus on recording and storing all the relevant information associated to the patients' health but have very limited capabilities to help doctors and managers to perform data analytics or to predict future events affecting the patients' health
- 2. When available, the BI tools integrated in the EHR systems provide very limited functionalities to investigate and manage group of patients.
- 3. Existing EHR solutions manage unstructured data (medical notes, images) usually as complementary information and provide limited functionalities to analyse this kind of data inside the system.



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## Introduction

## Our approach: Sholark Healthcare - Hikari



Hikari (Sholark Healthcare) provides a fresh view of the hospital allowing doctors and managers to investigate the service/hospital/region situation making groups and comparing different performances. It is based on Fujitsu's SHOLARK framework

- HIKARI's health risks assessment module (extra component) estimates important health risks and create alerts for doctors and managers to take precautions
  and design better treatments (current available for mental health, extensible to other diseases)
- HIKARI's patient behaviour module (extra component) predicts future behaviours in the life of the patients (diagnoses, readmissions, length of stay in the hospital)
- HIKARI's natural language processing module (extra component) automatically extracts relevant information from medical texts helping doctors and nurses
  with the task of collecting the information
- HIKARI's image recognition module (extra component) uses AI to extract information from medical images

The solution works as an assistant for supporting human decisions not as substitute of doctors' duties and ensures the right level of privacy and security of patients' health data.

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