

# CALAI

## FOR HOSPITALS

**An Artificial Intelligence driven Platform to help optimize Hospital Planning & Scheduling**

*by*

**CALYPS**  
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[www.calyps.ch](http://www.calyps.ch)

### Company snapshot

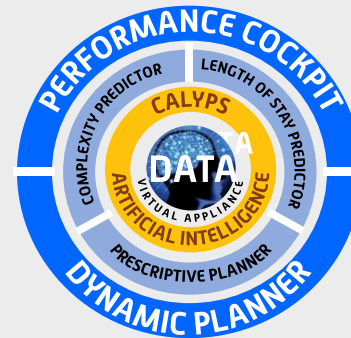
HQ	Sion, Switzerland
What we do	B2B Data Intelligence/Analytics (DI) & Artificial Intelligence (AI) solutions
Client sectors served	Multiple (Health, Finance, Retail, Manufacturing)
Clients served	300+ (across all industries), 40+ in Healthcare
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Q4 2019

*"Enabling the effective use of data that already exists - in abundance"*

## With AI, we improve

- **Planning accuracy and effectiveness** *very significantly* by using (underutilized) big data *much better* and *totally*
- things in a **quantum leap** (not just incrementally)



## SaaS/PaaS

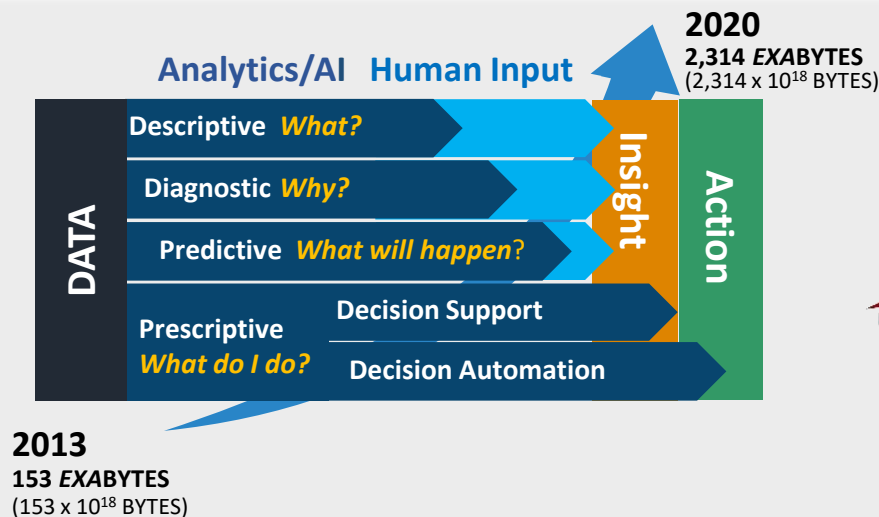
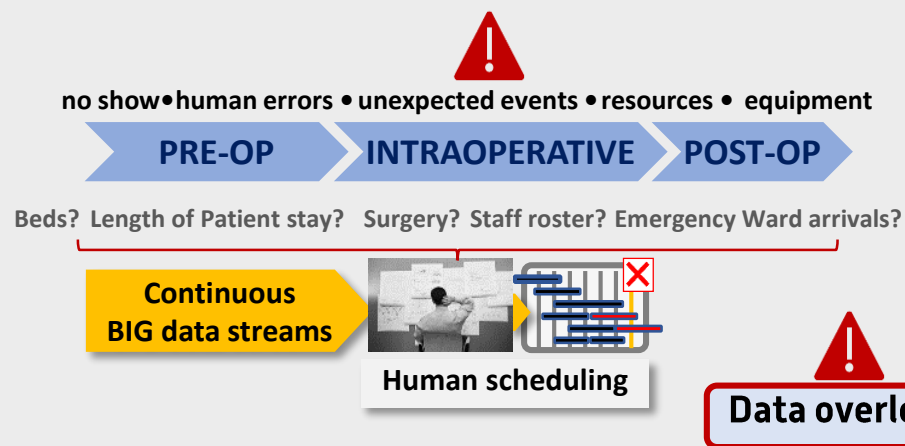
- AI driven
- remotely managed, centralized platform
- subscription based
- 24/7, near real time results
- Predictive and prescriptive results/information
- Cloud technology based (Microsoft Azure)

## We solve big challenges in hospital efficiency

Reduce overloads, bottlenecks, "stranded" resources

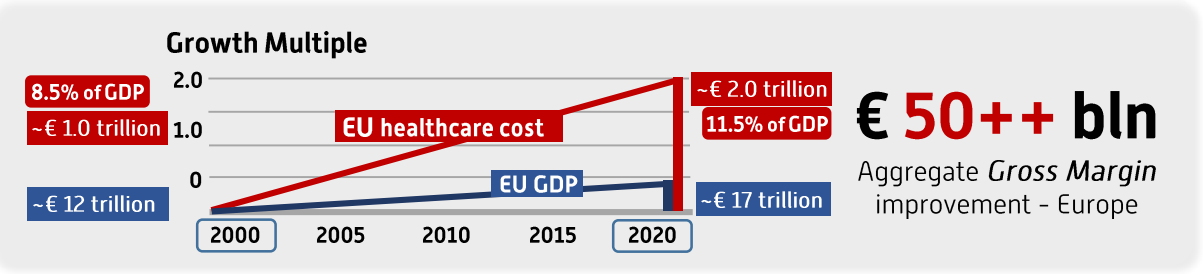
Improve suboptimal information and decisions

Lower spiraling costs



## The huge cost growth problem needs solving

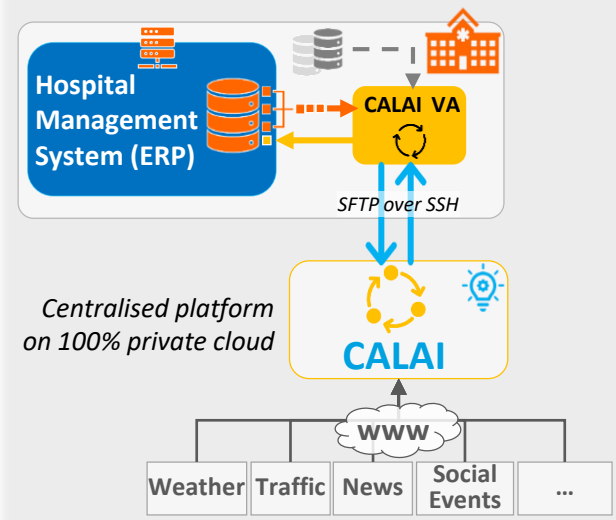
- Healthcare costs in Europe are exploding
- Yet improvement potential is huge as well as *realistic*



**€ 50++ bln**  
Aggregate *Gross Margin* improvement - Europe

## How do we solve this?

With the specially designed CALAI platform



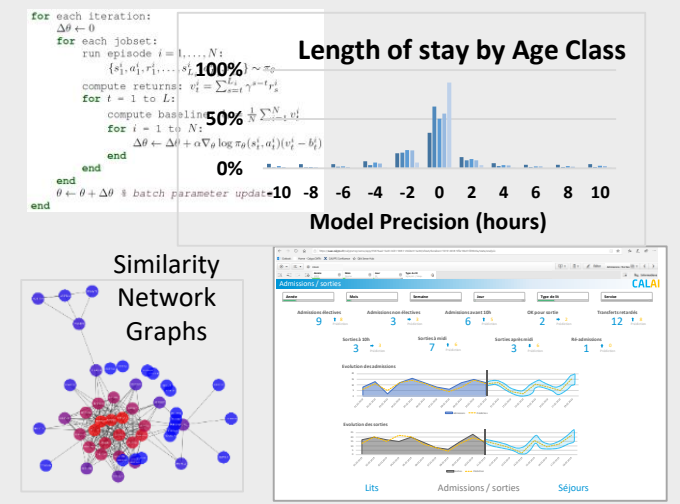
CALAI **system architecture**  
clean interfacing with data systems

## What is so different?

*All* data is used (which humans cannot – quickly, holistically)

	CALAI Solution Modules (Status Q4 2019)			
CALAI Tools	Emergency Ward Flow Optimiser (EWO)	Downstream Planning Optimiser (DPO)	Operating Room Planning Optimiser (ORO)	Consultations Planning Optimiser (CPO)
	<b>ANTICIPATING ACTIONS</b> predict unplanned events	Admissions, hospitalisations, discharges	Admissions, hospitalisation, discharges ...	No show, late start, surgery complexity ...
	<b>LENGTH OF ACTIVITIES</b> predict length of resulting activities	Length Of Stay (LOS)	Length Of Stay (LOS)	Length Of Operation (LOO)
	<b>RESOURCE ALLOCATOR</b> prescribe best resource allocation	Staff, beds, ORs, hardware, consumables	Staff, bed, room, drugs, consumables ...	Operating room, staff, hardware, consumables ...
	<b>PLANNING OPTIMIZER</b> prescribe planning under uncertainty	Beds, transferee wards/rooms, staff planning	Beds, rooms, staff allocation planning	Operations planning
PRODUCTIVITY METER	measure performance & ROI			
	Costs down, throughput/revenue up, efficiency up, stress down	Costs reduction, revenue increase, stress reduction	Costs reduction, revenue increase, stress reduction	Costs reduction, revenue increase, stress reduction

**AI driven Modules**  
to plan better (proprietary algorithms)



Proven **algorithms/AI tech**  
to predict & prescribe *better than ever*

## The market came to *us*

The CMO (Chief Medical Officer) of our partner hospital (**CH"abc"**) in France

A general hospital with 2100 beds - one of France's largest by (bed) size

"Of all the projects I have seen so far, this is the best one and the only one that really works and is useful"

"I love the practical and clear screens"

"With this platform and the results it generates, I know exactly what to do and can make significant improvements"

"The Emergency Ward module alone will save us many millions"

CALAI operates live since early September 2019 at the **CH"abc"** hospital in France, fully integrated in daily hospital processes, in 24/7 mode, with the **Emergency Ward Tool**

## Model

- ❑ Subscription fee & CALAI related services income
- ❑ Additional Modules & continuous upgrades

### Products

#### Subscription fee based

**4 modules** (initially)

#### Subscription Fee

Module 1 Downstream Planning Optimiser	€ AAA /yr
Module 2 Operating Room Planning Optimiser	€ BBB / yr
Module 3 Consultations Planning Optimiser	€ CCC / yr
Module 4 Emergency Ward Optimiser	€ DDD / yr

### Services

#### Professional Services

- Value Info for hospitals
- Business consulting related to CALAI for P&S and overall mgmt
- Data mgmt & KPIs
- Training & Upgrades
- Processes & Procedures optimizing

#### Data & Information

- Analysis related to (AI) tech
- Performance benchmark reports
- Trends & update reports

#### Capacity (OR) brokerage

- Brokering and scheduling of facilities