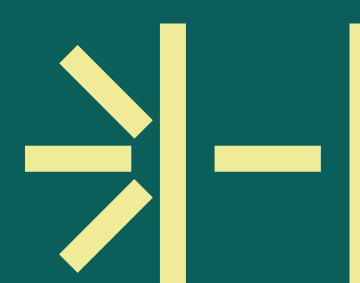


Digital Solutions: Legal framework for continuously connected digital services



What happens when you require hospital data?



The paper way....



Interpretation of the law:

by IT
by DSDS
by the legal department
by.....



Are there standard documents?

https://sphn.ch/services/dtua/



The technology driven way....

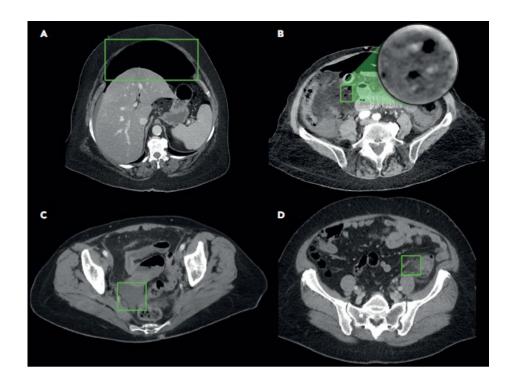


Cloud platforms

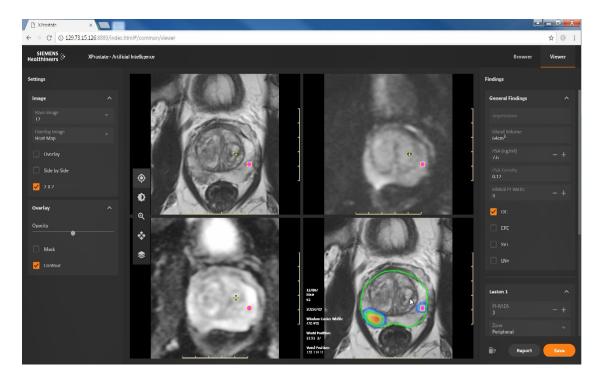


Examples of ML/AI in image anlysis

aidoc









Using a DWH



What is in there? 116 million data 23 龄 ? → elements 116M 50 **20** Format: Display charts in compact version: **Total Data Entries** Sites Online New Patients last 24 Hours Number of Issues System Monitor (6 Installations) Known System Online Status Heartbeat Code System **Patients 廖** 0 H 0 80 自 0 DEMOGRAPHIC GENDER 352K Queries Users Sites with trials Active trial sites **8** 7/9 200 DIAGNOSE SphnUsz **8** 9/11 Performance MEDICATION 231K SphnUsb **3** 7/9 0 0 **0** PROCEDURE 214K Enrolled Identified Eligible **2** 7/9 SphnHug New Patient Data since last 90 Days **Patient Distribution by Site** New Patients pushed per Year 11. (1) New Patients admitted to Hospital per Year It's not possible to load the heatmap 350K 300K 250K 200K 60K 150K 100K 50K October 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 **Data Element Distribution by Category** Data Element Distribution by Category and per Patient Distribution of Patients by Age Distribution of Patients by Gender Category Average Female Male Unknown Total Data Elements 320 19.8K Diagnosis Medication 7.4K 0 6 12 18 24 30 36 42 48 54 60 66 72 78 84 100M Procedures

Clinerion 2020 - last updated 30.10.2020 17:04

Dashboard

355K

Total Patients

00

Searches

120K

80K

60K

40K

20K

August

Total Data Elements

Diagnosis Medication

Procedures Lab Test

Sub Elements

1.45M

Total Cases

Enter Search Term

80 HO

≗ 355K H 5

Switzerland

≗ 355K H 5

_° 113K

≥ 26.1K

△ 68.5K

△ 41.7K

≥ 105K

20

Universitätsspital Zürich (USZ) -

Hôpitaux Universitaires de Genève

Universitätsspital Basel (USB) -

vaudois (CHUV) - operation

Universitätsspital Bern (INSEL) -

H O

HO

H O

20 HO

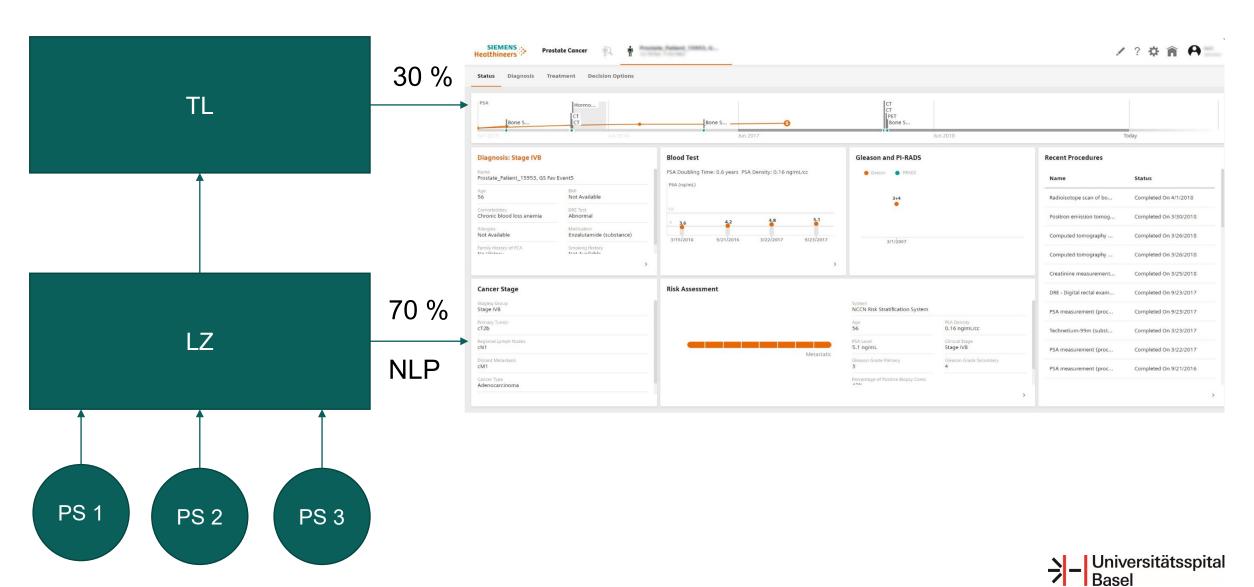
355'000

patients

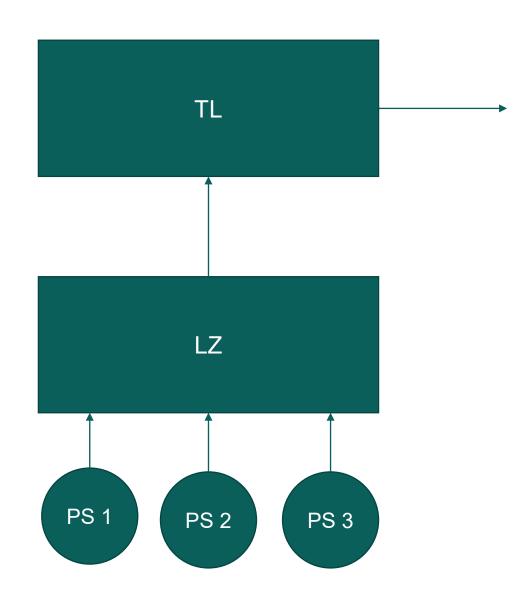
Centre hospitalier universitaire



DWH as virtual hospital data stream: CDS onsite testing



Exchange services on top of the DWH









Thanks for your attention

