



# VALUE OF HEALTH DATA FOR HEALTHCARE SYSTEMS

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**Healthcare  
generates and  
store  
enormous  
quantities of  
data...**

Some estimations talk about  
**2,314 Exabytes** per year

**...and consumes  
a lot of energy,  
affecting  
significantly the  
carbon footprint**

Gb  $10^9$  Tb  $10^{12}$  Pb  $10^{15}$  **Eb  $10^{18}$**  (trillions of bytes)





**But most of  
them are  
trapped in their  
databases**

**Operational Real-World data are  
often not usable as they are**



# CREATING VALUE FROM DATA..



DATA



SORTED



ARRANGED

PRESENTED  
VISUALLY



**CREATING VALUE**  
**Tell a story**



From the value of Health data it's possible to:

- **Improve** clinical effectiveness
- **Optimize** healthcare processes
- **Boost** clinical research

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...But data must be exploited through sophisticated techniques, ensuring the full and native respect of the privacy rights







**How (really)  
exploit  
real-world  
healthcare  
data ?**



# 1. Data Platform

## SYSTEMS OF ENGAGEMENT

Provide data and insights directly into the hands of the clinicians, staffs, patients and their families

## SYSTEMS OF INSIGHT

New capabilities allowing healthcare providers to create value from the data stored in their systems of record

## SYSTEMS OF RECORD

Existing applications used by healthcare providers to run their business

INTEGRATE

INGEST

INDEX

INSIGHT

INFORM

INTERVENE

## 2. Future-Ready EMR

Not just a collection of “digital paper”  
but a real support for daily activities  
and enabling the secondary use of data



### 3. A new role for patients

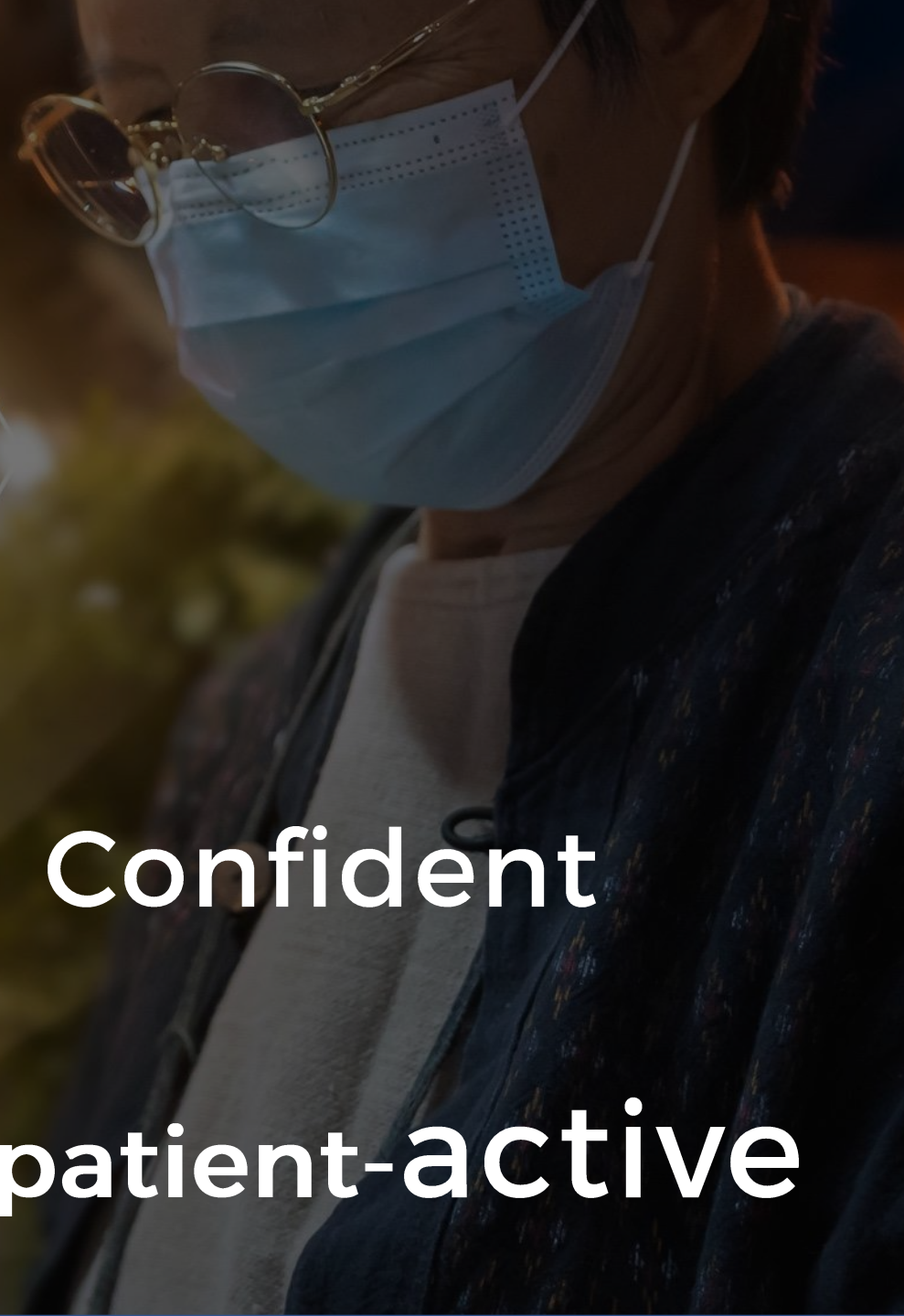


Engaged

Aware

Confident

from patient-centric to patient-active







**How (really)  
exploit  
real-world  
healthcare  
data ?**

- 1. Data Platform**
- 2. Future-ready EMR**
- 3. Patient-Active new paradigm**



спасибо  
danke 謝謝  
ngiyabonga  
teşekkür ederim  
dank je  
gracias  
tapadh leat  
bedankt  
hvala  
mauruuru  
thank you  
dziękuję  
sagolun  
sukriya  
kop khun krap  
go raibh maith agat  
arigatō  
takk  
dakujem  
merci  
obrigado  
merci  
mochchakkeram  
terima kasih  
ευχαριστώ  
감사합니다



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