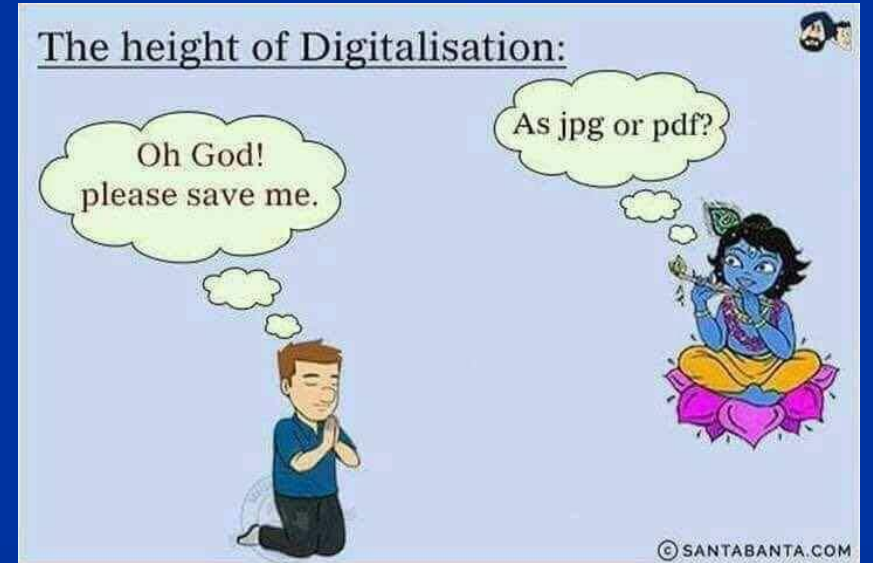


Cognizant



Escaping Digital Chaos in Biometrics

Deven Babre

18-May-2019

Disclaimer

Views and Opinions Expressed in this presentation are solely of the Authors and do not necessarily represent official policy or position or views of **Cognizant.**



Agenda

- 1 Introduction

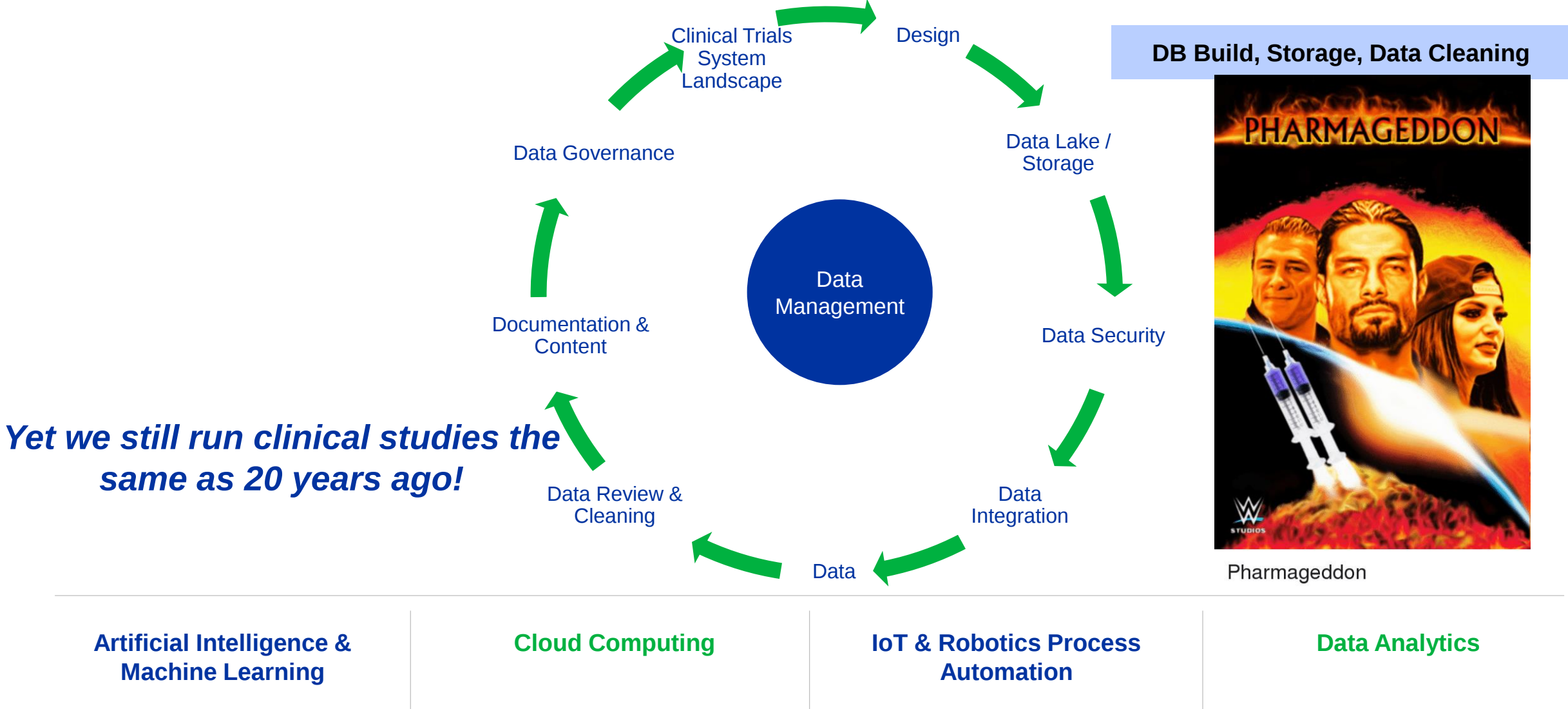
- 2 Current Scenario

- 3 What is Digital Chaos

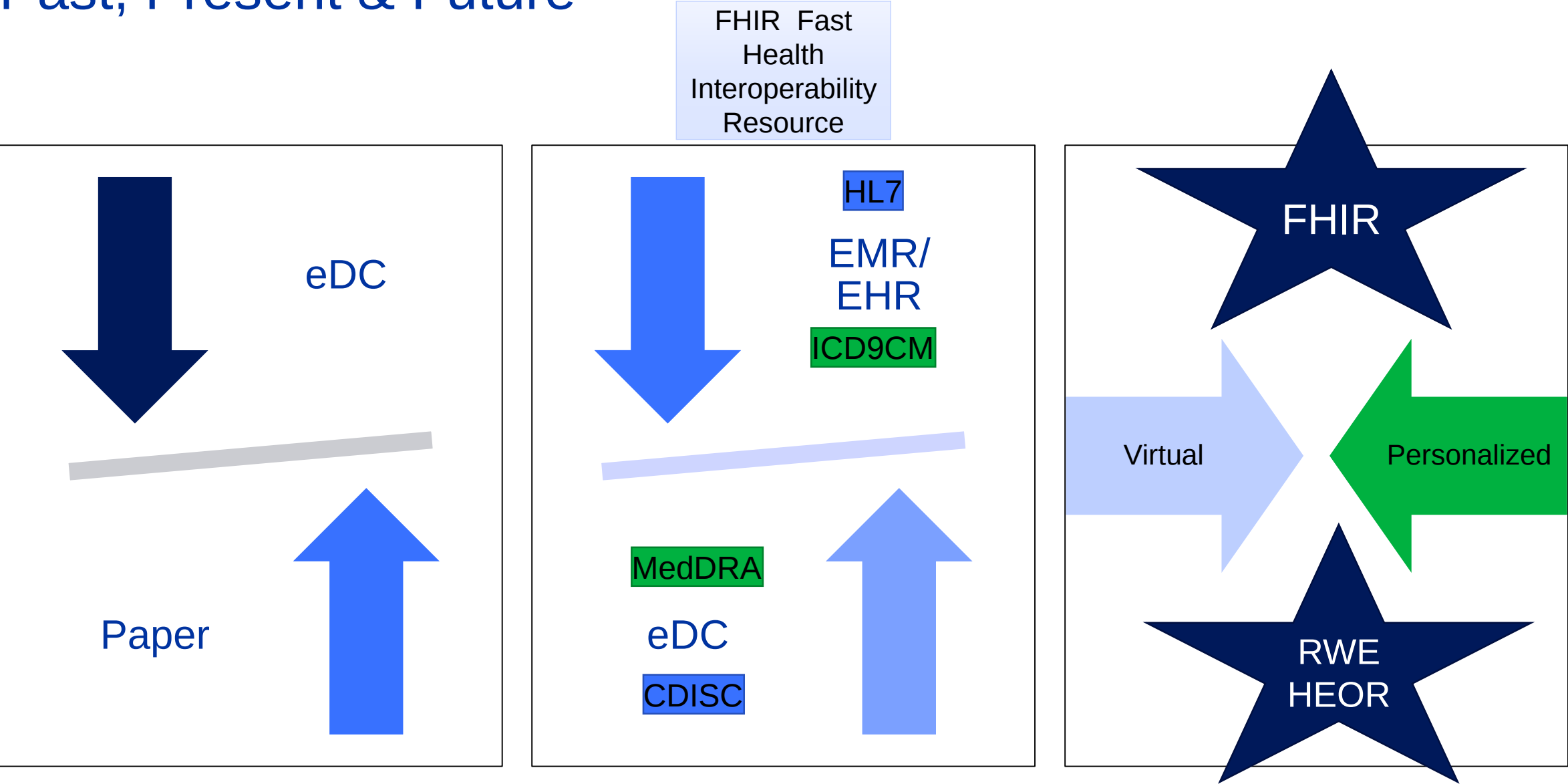
- 4 Digital Simplification in Biometrics – Future – System Integration & AI, RPA & ML

- 5 Questions

Introduction



Past, Present & Future



Activities

Study Initiation

Protocol Development

★ eCRF Development

★ Study Setup

★ Annotation

★ Database Development

Generation Of
Document
Database

★ Programming Check

Study Conduct

Study Finalize

Perform QC Procedure

Data Handling Report

Final Inspection

Database Lock (revoke User
access to database)

Transfer Data to SAS

Statistical Analysis

★ Statistical Report



Types of Data Sources

1 - 10



1 - 5 ~ 50%



6 - 10 ~ 37%

11 - 20

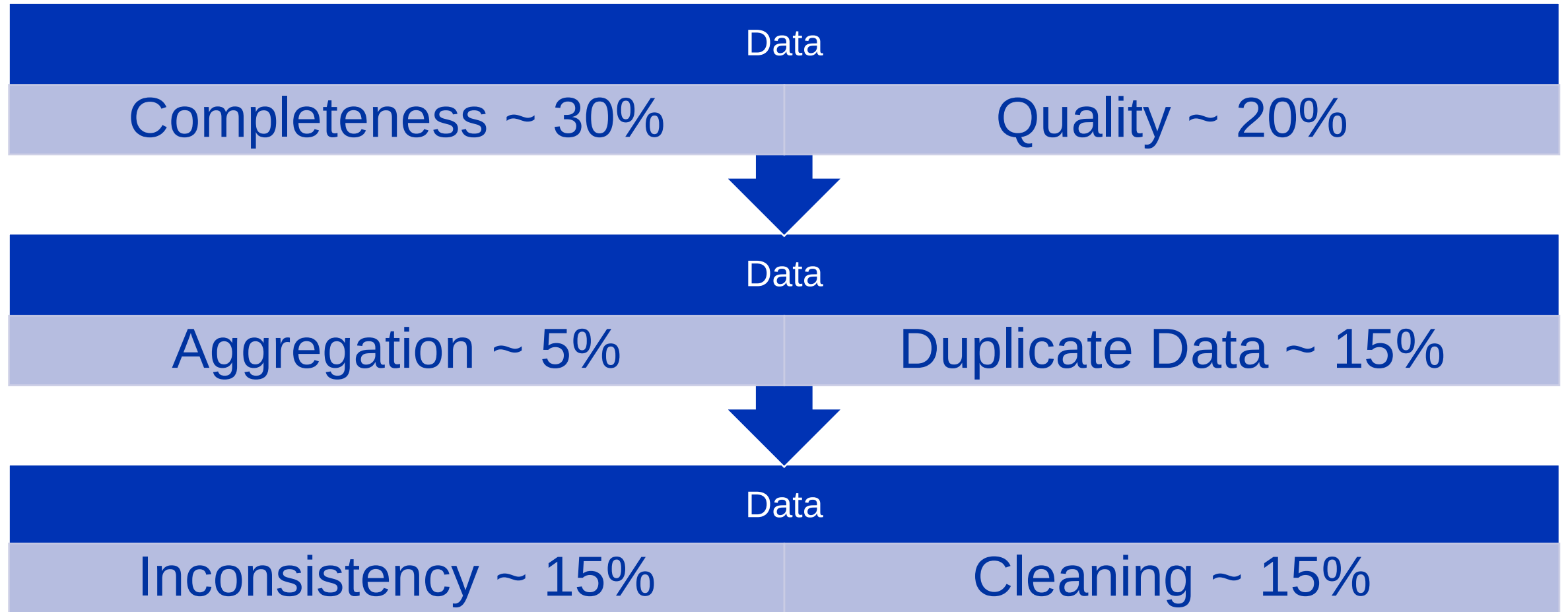


11 - 15 ~ 7%

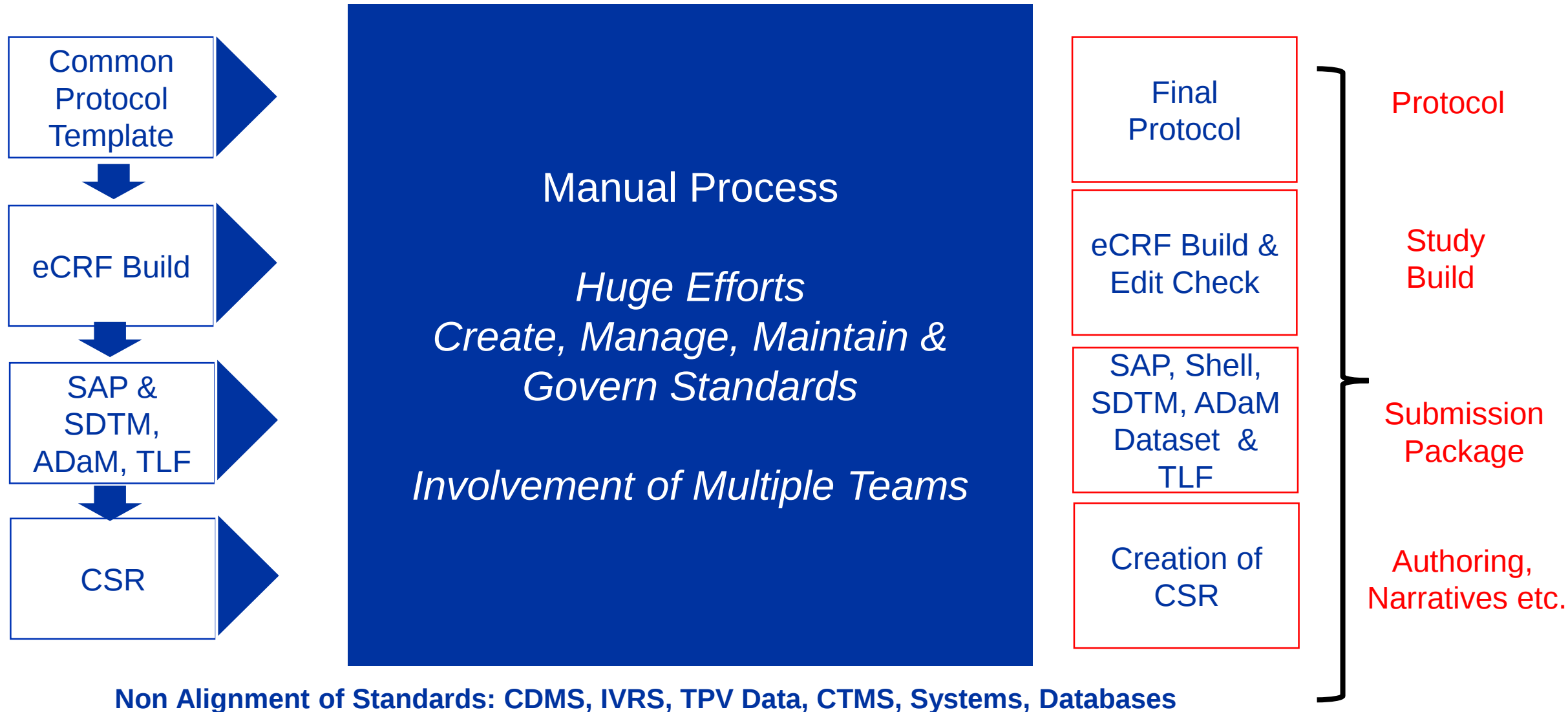


15 + ~ 6%

Top Challenges



Current Scenario

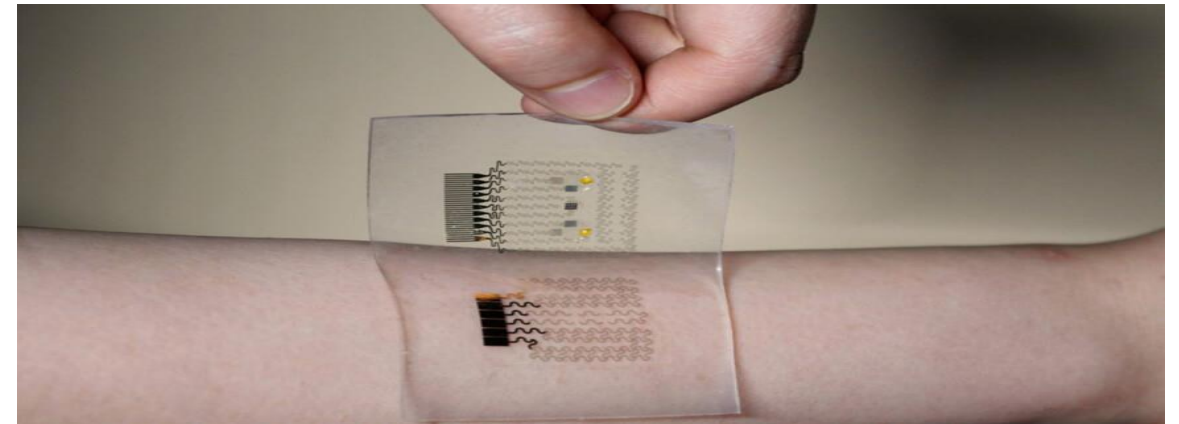


Medicalized Smart Phone



FIGURE E.1: The medicalized smartphone of the future. Check marks indicate functions that are now operational, at least in part. Adapted from xkcd.com.

Future Digital - Chaos Tattoo



What challenges Industry is facing due to Digital Chaos?



Connected Medical Devices
Telehealth
Consumer Driven Healthcare



IoT
M2M Integration
Sensor Technology

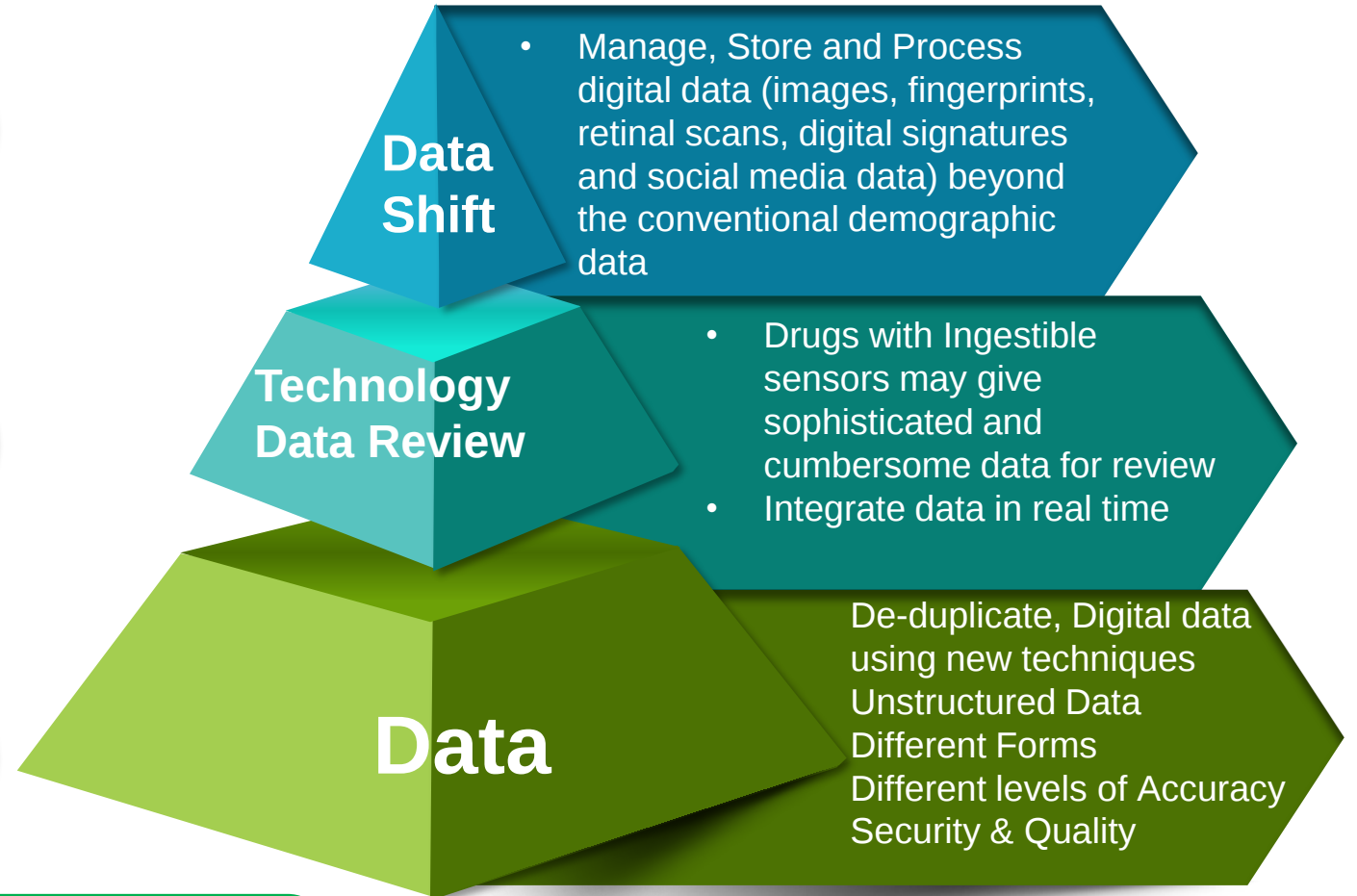


Manage and store huge
volumes of data
Speed to scan/ search

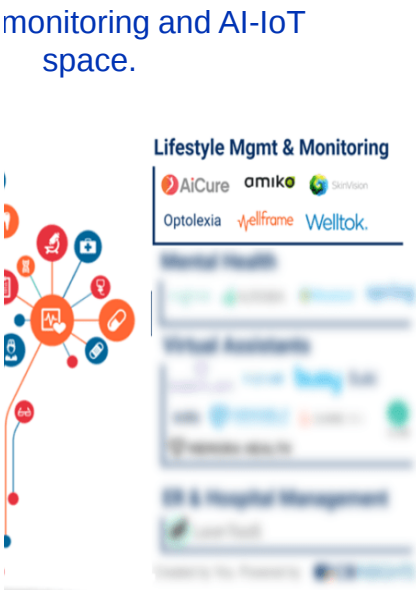
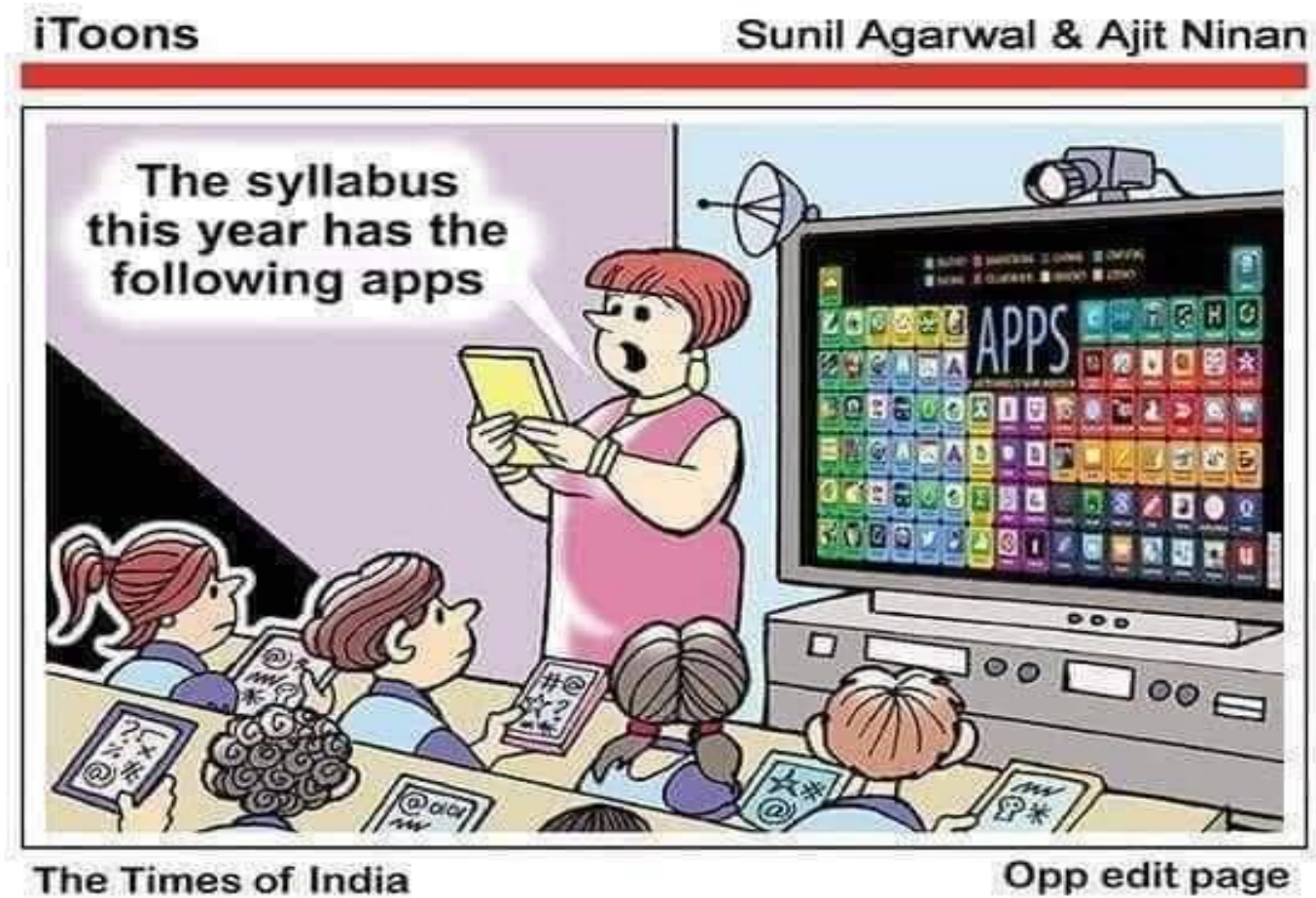
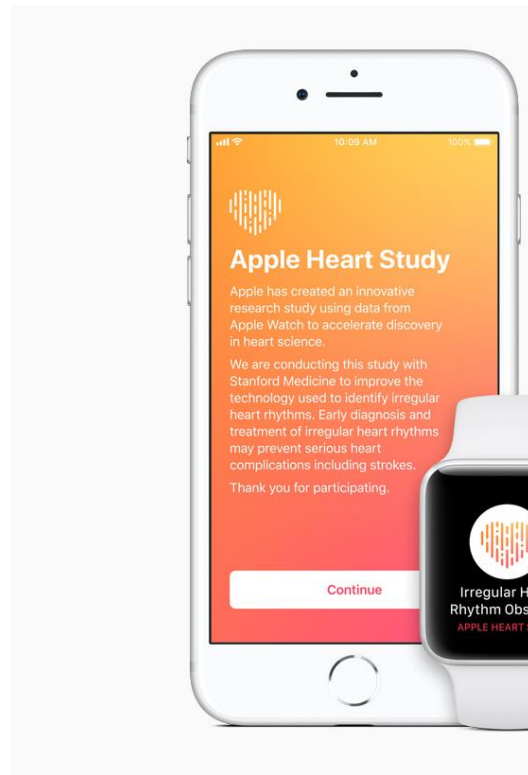
Activity

Data

Information + Science



Paradigm Shift



Futuristic Clinical Trials

Patient
Identification

Digital
Documentation



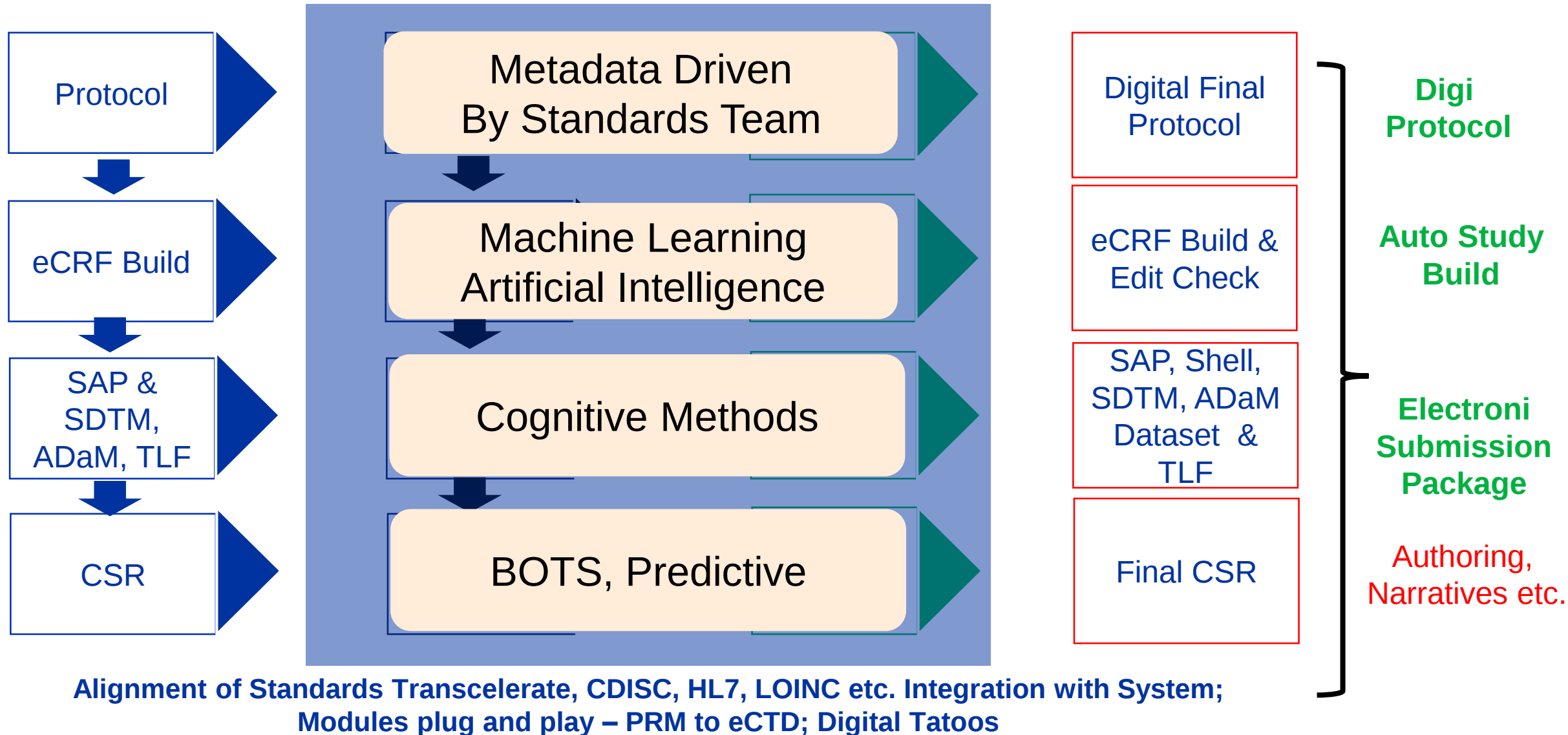
Adaptive, site-less, and investigator-less clinical trials provide agility and access

Adaptive,
Virtual Trials

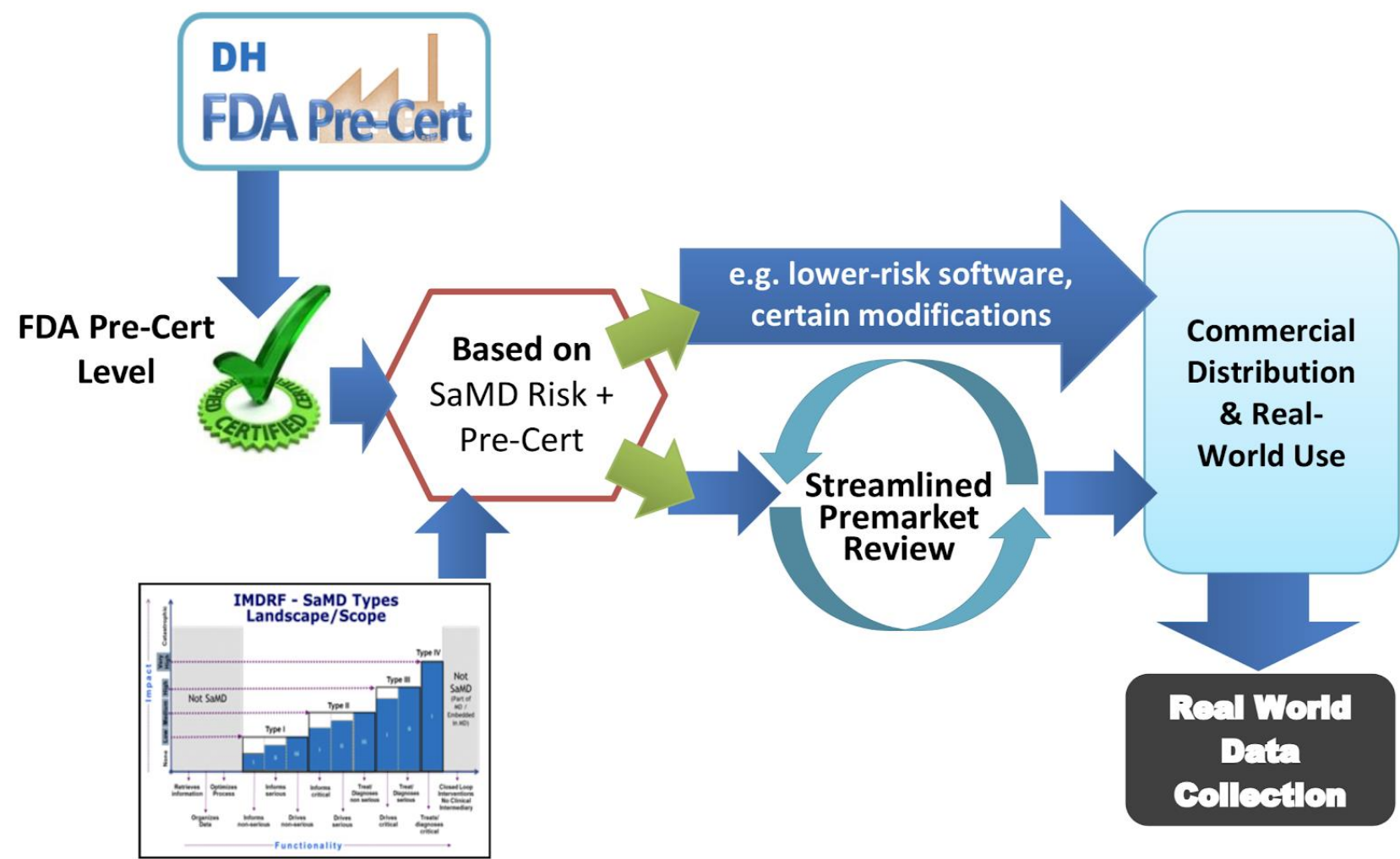
Data
Ownership
Block Chain

person's health

“Futuristic Process”



FDA Initiatives



New Digital ecosystem

Change of
Mind Set

What	How it helps
EMR	Easy Storage + Retrieval; Improved Efficiency & Productivity
EHR	Coordination and informed decision-making
Personal Health Record	Consistency of information
Remote Diagnosis	Reduces duplicated tests and referrals + Easy Access
Remote Monitoring	Patient-centric integrated care + Reduce emergency and re-admissions
Telecare	Improves productivity and reduces burden of healthcare resources
mHealth Applications	Greater patient engagement & saves time + Proactive & targeted care
Big Data/Analytics	Accurate diagnosis, better treatment + Improves diagnostics and accuracy of treatment

Lower
Cost

The difficulty lies, not in new ideas, but in escaping from the old ones, which ramify, for those thoughts brought up as most of us have been, into every corner of our minds.

John Maynard Keynes

Cognizant

Thank you

