ORACLE Health Sciences

Oracle mHealth

Enabling Digital Clinical Trials at Scale

CDISC UK

Jonathan Palmer Senior Director, Product Strategy, Digital Trials 5 July 18



Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

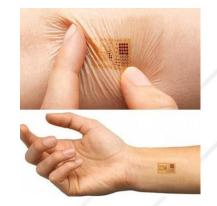


Connected Lives – Fitness, Wearables, Medical Devices, Sensors.... How can we embrace such technology in Clinical Trials?









Study Condu







On the Road to Change with Technical innovation

MOBILE APPS PATIENT **RWD/RWE** ENGA **T**CLINICAL AS CARE 2 eSO **VOICE RESPONSE** SITELESS TRIALS **SOCIAL** 125 **VIRTUAL VISITS MEDIA MACHINE LEARNING**





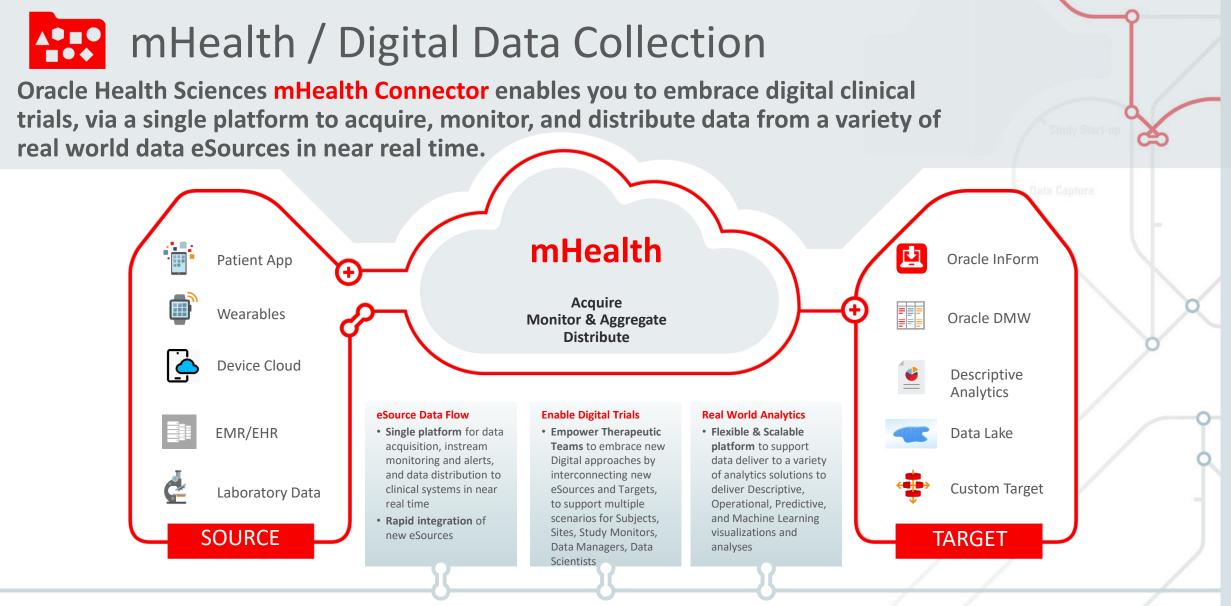


Oracle Technology supporting the Fastest Car on the Planet Bloodhound SSC – Supersonic Car



POWERING THE 1000MPH CAR WITH DATA





Key Benefits



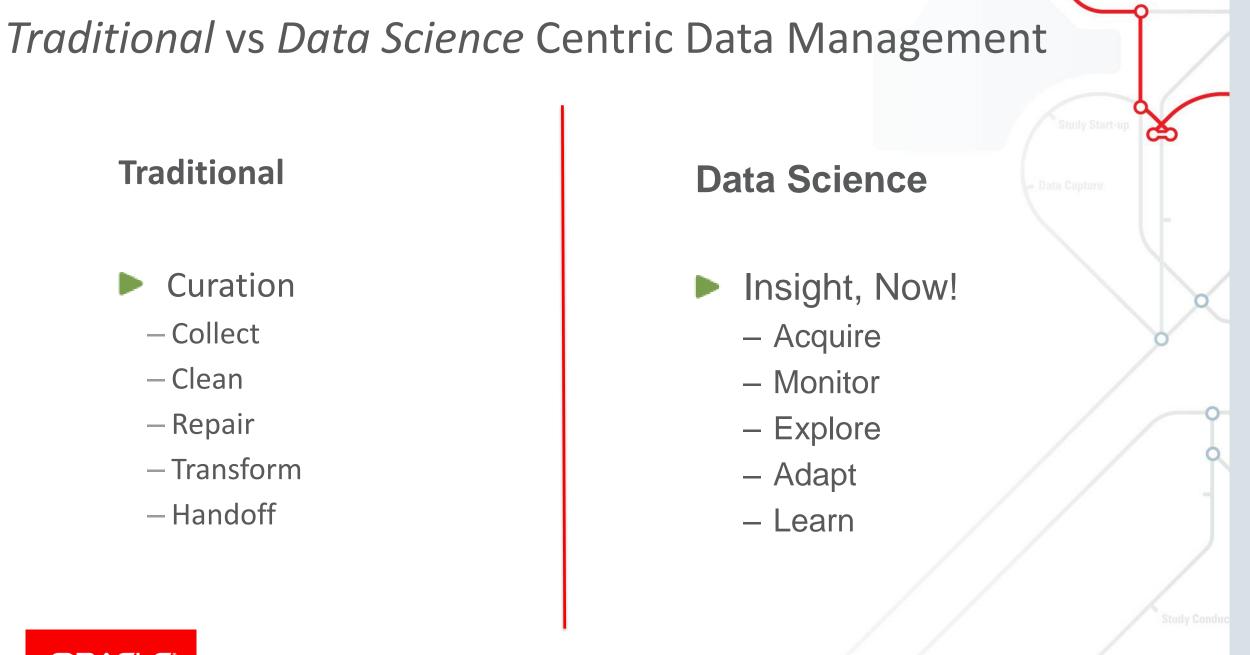
Digital Trials – Full Speed Ahead...

Dracle Health Sciences mHealth Connector enables you to embrace digital clinical

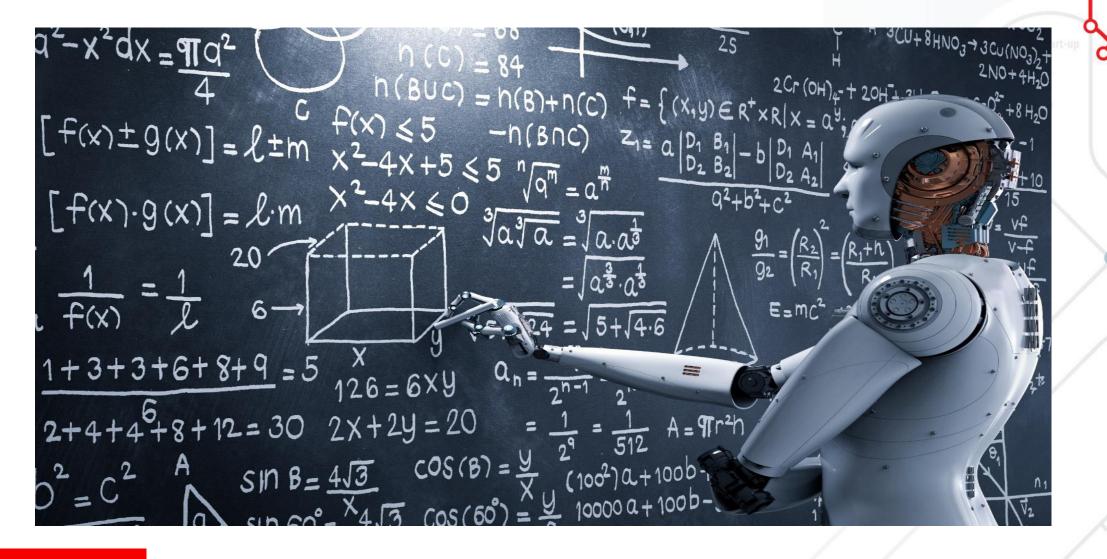
Empowered Therapeutic

eSource Data Flow • Single platform f data C E Gow the peut Fley • Elever to support





Three Enabling Technologies....



ACQUIRE – Internet of Things **Streaming Data** Varied eSources **Digital Clinical** Research Real Time Insight hppping **Real Time Action**



Operational Analytics

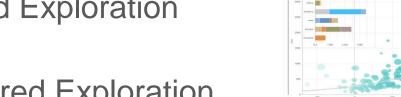
Structured Exploration

Descriptive Analytics

Unstructured Exploration



5,731



EXPLORE & MONITOR – Integrated Analytics

Mobile Analytics

ORACLE

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ADAPT & LEARN - Machine Learning and AI Pattern & Trend Analysis 📲 AT&T 🗢 * 75% 💷 10:04 I can see you are taking all your doses of the Prediction preventative inhaler -Great Job! Do you know what triggered the attack? Hypothesis Generation Exercise Food Image Analysis Animal hair is a common trigger. Have you had any previous known allergies to animals? Natural Language Just now Done

Chatbot

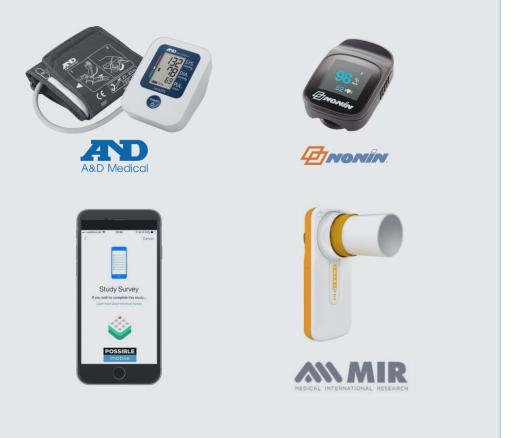
Example eSource Collaborations





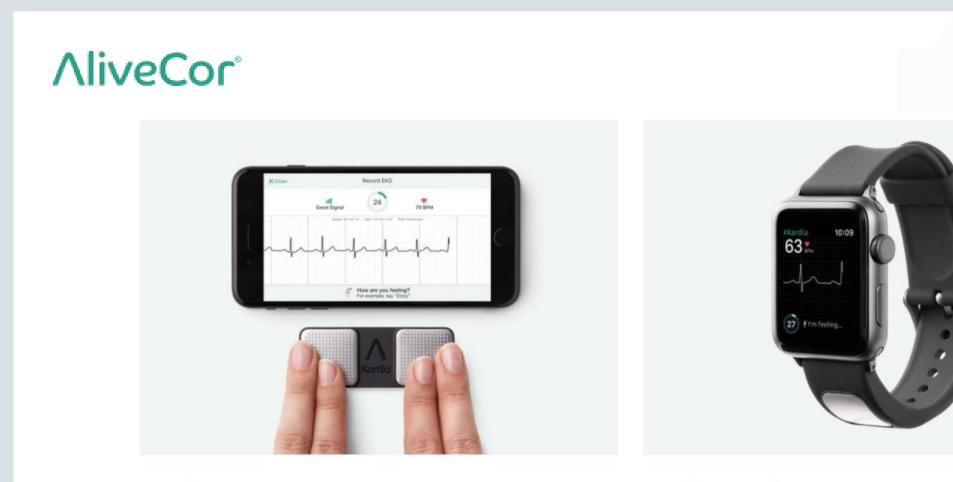
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Example eSource Providers – Collaborations



Integration: Bluetooth / Mobile App / Apple Health





KardiaMobile

KardiaBand

FDA clears AliveCor's Kardiaband as the first medical device accessory for the Apple Watch

Posted Nov 30, 2017 by Sarah Buhr (@sarahbuhr)



Ancto*

BioStampre

Working with

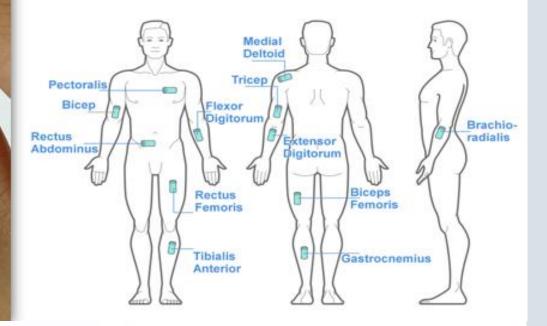
11 out of the top 15 pharma companies



PROJECT BLUE SKY

World's Most Soft, Comfortable Medical-Grade Wearable Biosensor and Analytic System for Clinical Research

- Passive Continuous Monitoring
- Objective Real-Life Subject Data
- In the Clinic and the Home
- Strong Clinical Validation and Data
- Capture Digital Endpoints, QOL metrics





Demo Time

Randomization & Supply Management

Need Healthy Volunteers

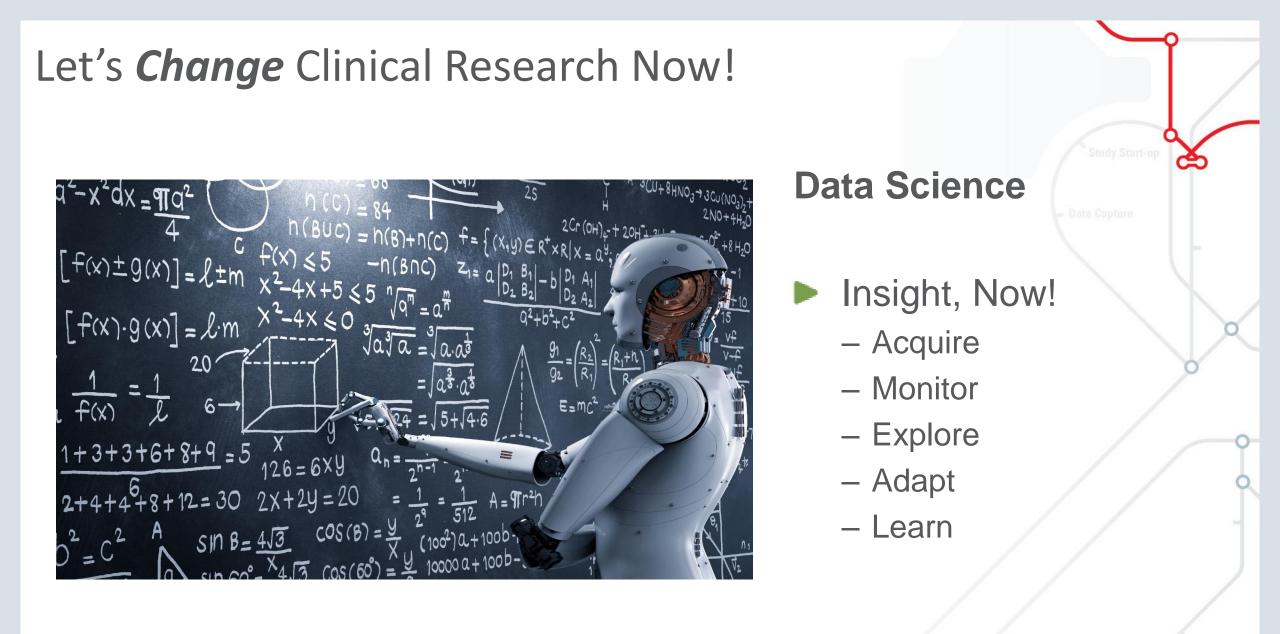




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\sim Summary Oracle mHealth ත ትገ





Additional Information

mHealth

- Datasheet
- <u>YouTube</u>
- <u>White Paper</u>
- Oracle.com



Today, with sensors, wearables, mobile apps, and a array of smart things tracking every aspect of our daily lives, there is a wealth of new ways to generate real world data for clinical trials. But, acquiring data from such a wide variety of eSources and aggregating it for use in clinical trials can be difficult.

Easy eSource Data Aggregation

New discurse, emerging every day, effer a great opportunity to get diser to be patient. Henoldy ensities that is an undire lange, out of the the two combined with collecting pain is care with a mobile sape, out of the the two disching mere digitationaries that could be the two disching mere digitationaries that could be the two disching mere digitation ensities that the discretion of the same discretion by a quarter of the discretion of the same discrete discretion What if direct new discrete the discrete discrete discrete discrete the finds a new ECC devices in the discrete new discrete into their clinical triats in a quick all string that is the discrete new discrete into the triat clinical triats in a quick in displication. mHealth and the Transformation of Clinical Trials

Harnessing data, advanced analytics, and the Internet of Things Study Start-up to optimize digitized clinical trials

ORACLE WHITE PAPER | JUNE 2017



Analytics

- Oracle Storage Cloud
- Oracle Big Data
- Oracle Analytics

Bloodhound

• <u>YouTube</u>







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Integrated Cloud Applications & Platform Services

