### K = Y R U S life science

Leveraging Digital for Empathic Patient Experience enhancing CRO activities

2020, December 17<sup>th</sup>



Who we are

— Keyrus Life Science, the C<sup>2</sup>RO





Our mission is to help **connect** industry expertise, Life Data Sciences and Digital Enablement to fully leverage both Clinical Research ecosystems and Real-World Evidence/RWE in healthcare, **making Clinical Research activities more reliable, innovative, and agile** 



But let's focus on the CRO part of the equation

Industry Trends – digital trials will grow faster than global CT market



The paradigm shift between traditional trials versus remote / digital trials is exactly the journey Keyrus Life Science embarked on even prior to the COVID-19 pandemic We strongly believe this is a game changer

(\*) number of trials per phase (GlobalData, 2019), and average total cost per trial (<u>https://doi.org/10.1177/1740774515625964</u> and <u>https://www.appliedclinicaltrialsonline.com/view/non-adherence-direct-influence-clinical-trial-duration-and-cost</u>)







## R&D challenges faced by the industry



Why are the patients dropping out?

— Reasons for dropping out : rational vs emotional reasons





Why are the patients dropping out?

— Reasons for dropping out

### emotional topics

ut in a



Why are the patients dropping out?

— Reasons for dropping out

### medical topics





## — The Digital Ecosystem – the absolute journey to embark on



### beyond the patients

- keep in mind that the clinical trial deals with a **full ecosystem** of actors, not only the patient
- by creating the **digital backbone** to connect the patient and the investigator ecosystem, **data is faster and more accurate** (adverse effects, treatment adherence), making the trial **more agile**
- by allowing **telemonitoring**, the needs for on-site monitoring visits are decreased

### But also driven by the patient

- create a new patient experience through digital apps to
  - share information about the study
  - use e-consent as the new standard
  - allow patient to be an actor rather than a study topic and have interactions at any time
  - care about patient feedback (emotions/questions)

#### What's next?

Bridging clinical trials and healthcare

connected devices allow ever richer and faster data to be collected, opening the way to more personalized medicine





life science

# — New paradigm

### patient → patient actor → patient sub-investigator



strengths	weaknesses
<ul> <li>direct sourcing of data (patients)</li> <li>richer, denser data</li> <li>unlocking new analytical approaches (ML/AI)</li> </ul>	<ul> <li>challenges for data standardization, analysis</li> <li>regulatory challenges for devices and systems (ex. privacy)</li> </ul>
opportunities	threate
	threats







Appendix



KLS part of a bigger group

— Keyrus International footprint





#### 19 Countries on 4 continents

## 3

areas of expertise : Data Intelligence, Digital Experience, Management & Transformation



## KEYRUS life science

# Thank you !

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The C<sup>2</sup>