## Why biopharma is prioritizing data to build better medicines

A biopharma executive survey from **TetraScience and Amazon Web Services (AWS)** 

We spoke with 500 biopharma executives to discover how industry leaders plan to deliver better therapeutics to patients faster. Their answer was clear. Maximize the value of scientific data with cloud-enabled FAIR (Findable, Accessible, Interoperable, Reusable) data across the value chain (discovery, development, and manufacturing). Respondents believe this will impact three key industry drivers.

Risk

- Learning from experiments faster
- Reducing time to market for
- Accelerating innovation



- Increasing operational efficiency
  - easing return on investment (ROI)



- Improving drug safety
  - Reducing errors
  - Improving regulatory compliance

# Cloud capabilities and the cost for life science laggards

Out of **500** executives:

**CLOUD LAGGARDS** 



(fully replatformed to the cloud)

THE CLOUD

MOVING TO

CLOUD LAGGARDS face competitive disadvantages because they either just started their digital transformation journeys or haven't even planned to start

\$100M in lost productivity for mid-size biopharmas due to fragmented, siloed data

\$1.26 million lost per day when delaying a drug's launch





7X more likely to require repeated experiments due to missing or



The state of scientific data



Scientific data is sufficiently prepared and available for analysis and data application analysis and data applications





hard it is to clean and link the data." - Vas Narasimhan, CEO Novartis









data strategies according to biopharma executives

Keys to successful scientific



### Learn from experiments faster Reduce time to market for therapeutics Accelerate innovation



- 1 Year: Average time
- respondents want to reduce their time to market

Nearly 70% of all respondents ch digital transformation or hiring more R&D IT professionals as the most impactful strategy



Cloud leaders were asked: How much did FAIR harmonized data in the cloud improve time to market? Over 60% of cloud-leading executives reported significant (≥25%) improvements in time to market.



In my view it [FAIR data] can accelerate innovation and reduce the time

needed to bring a drug to market." ior Director of R&D IT, mid-size Benelux biotech firm



**8 in 10 biopharma executives** say FAIR data could reduce costs by >10%





Improve productivity

73% of executives in cloud-advanced companies believe high-quality data will h to very large impact on reducing costs

33% of executives without advanced cloud capabilites agreed Switching to FAIR data in the cloud could save

companies hundreds of millions of dollars.

Reduce risk Improve drug safety Reduce error

### Improve regulatory compliance



has boosted our efficiency, prevented work from being

repeated unnecessarily, and allowed us to ask questions we could never have

asked before." -Head of R&D IT at a mid-s U.S. biotech/biopharma

66 FAIR data in the cloud Our survey reveals a considerable amount of wasted time by researchers who are forced to repeat experiments in order to avoid errors due to missing or incomplete data, and that cloud "laggards" are impacted significantly more than their advanced peers.

Do you have to repeat experiments due to missing or incomplete data?

60%

SURVEY QUESTION:

88% 8%



To see the complete TetraScience and Amazon Web Services biopharma



executive survey, visit tetrascience.com