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R Shiny Apps as Game-Changers in Preclinical Trials

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SCIENCE OF CERTAINTY

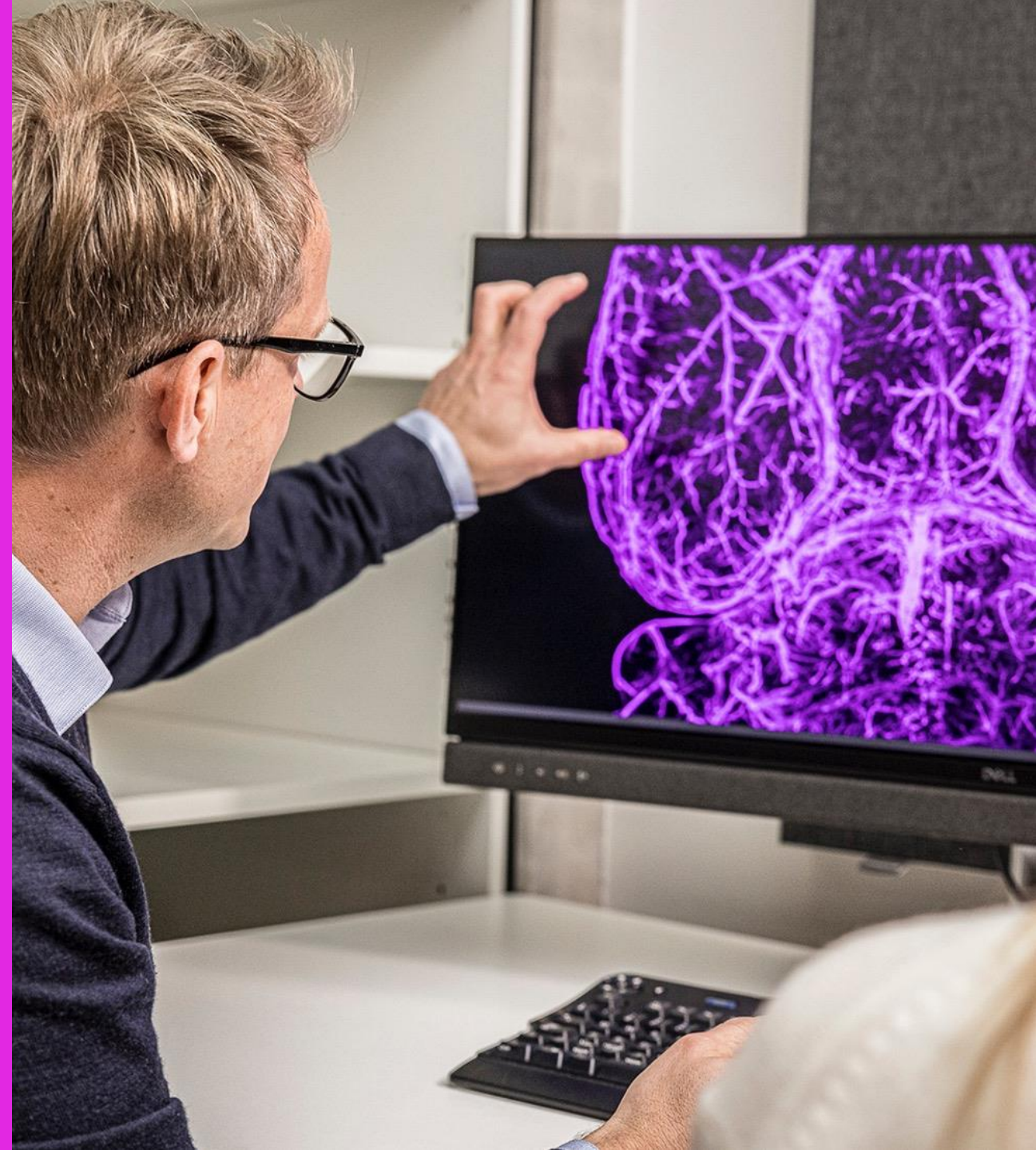
About me

- + Bachelor
Biotechnology, Tec de Monterrey, Mexico
(2020) R for Biodata Science
- + Masters
Bioinformatics and Systems Biology, DTU,
Denmark
- + Gubra (2024)
Associate Research Scientist

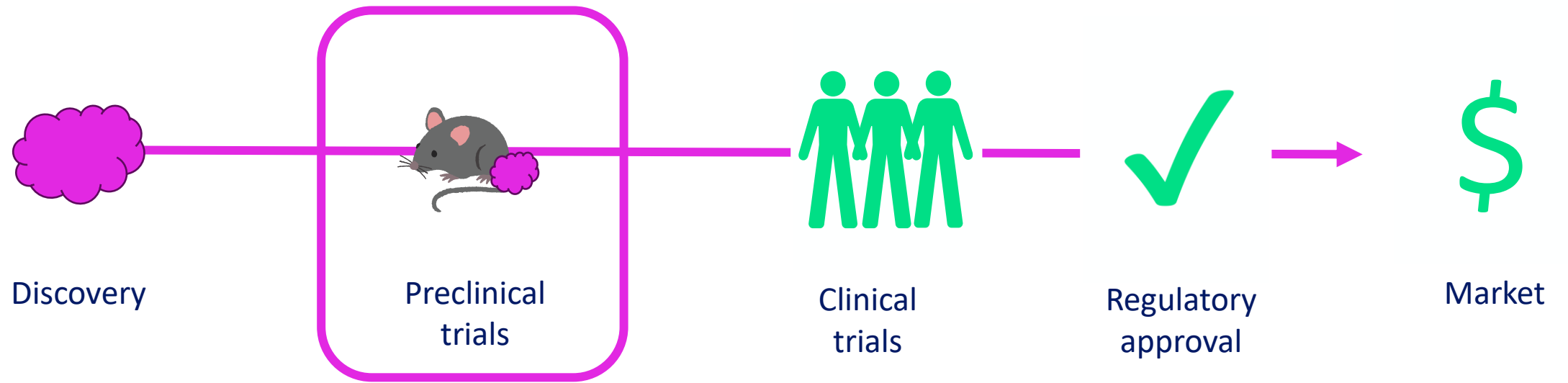


About Gubra

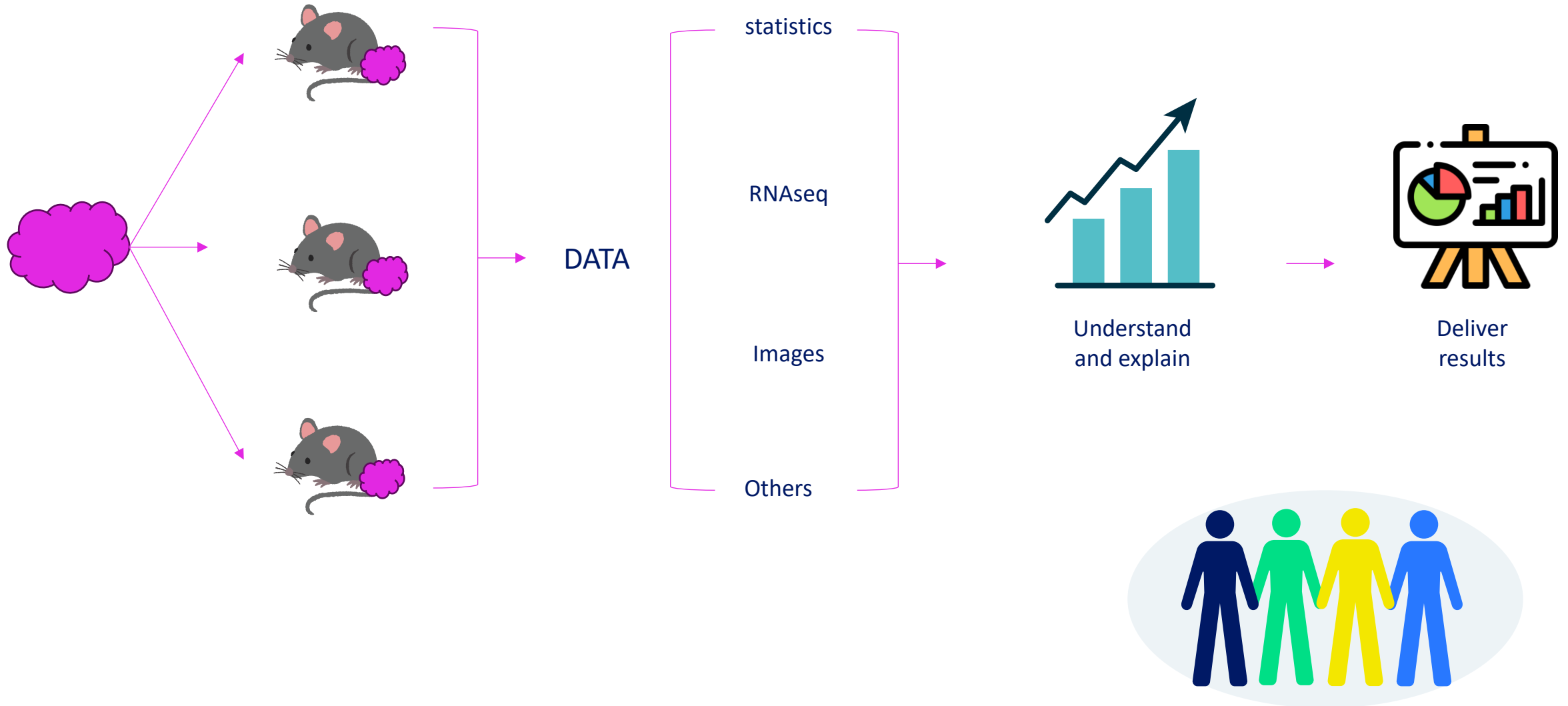
- 01** Preclinical CRO and Biotech Company focused on peptide-based drug discovery within metabolic and fibrotic disease.
- 02** Around 200 employees.
- 03** We have served 15 out of the 20 largest pharmaceutical companies globally.
- 04** We have 5 active partnerships with Boehringer Ingelheim, Bayer, and Silence Therapeutic.

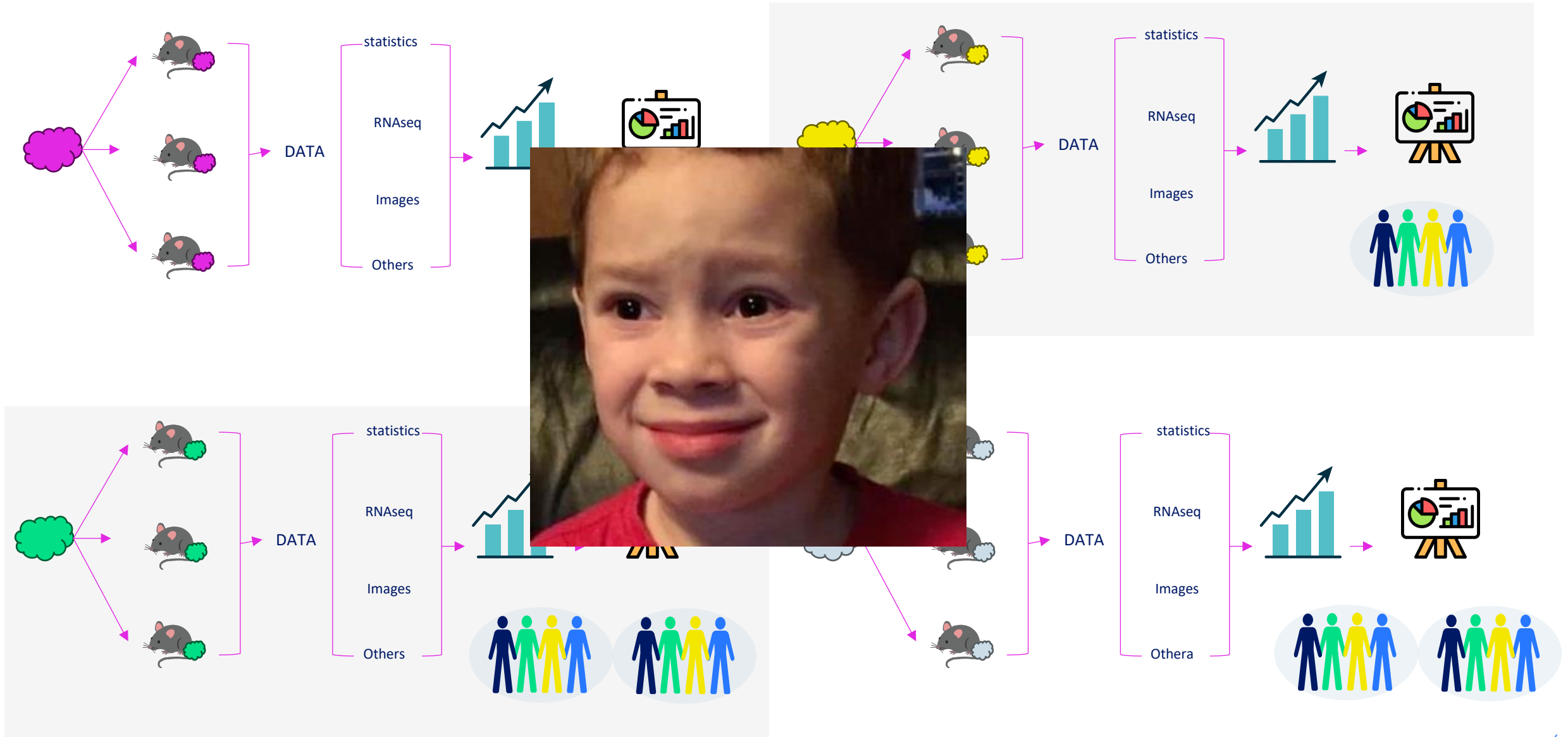


From molecule to market



WORKFLOW





Challenges



Logistics



Data processing



Collaboration across departments



Quality across the workflow



Solution

 Logistics -> Cosmos

It is:

- + Planning of studies (daily operations)
- + Manage resources
 - People
 - Spaces
 - Animals
- + Day-to-day overview

Value:

- + Cross-department collaboration
- + Transparency



Solution



 Data processing -> Data Explorer

It is:

- + Fully automated and standardized data processing
- + Data visualization and statistics
- + PPTX and DOCX generation

Value:

- + Standardizes methods – constancy in results
- + Eases the everyday workflow
- + Let people focus on what is important

We don't use it for

- + Image analysis
- + Heavy backend (Python, FastAPI)

R and R Shiny at Gubra

- + Critical in our infrastructure
- + 90% of the employees use R Shiny regularly
- + Essential part in Drug Discovery

Is R Shiny so amazing?

Is R Shiny so amazing?

Yes and no.

It's not the answer for everything but they can be much more than just a data analysis tool.

Is R Shiny so amazing?

Yes and no.

Help people be awesome



Thank you for your attention

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Let's stay connected

