

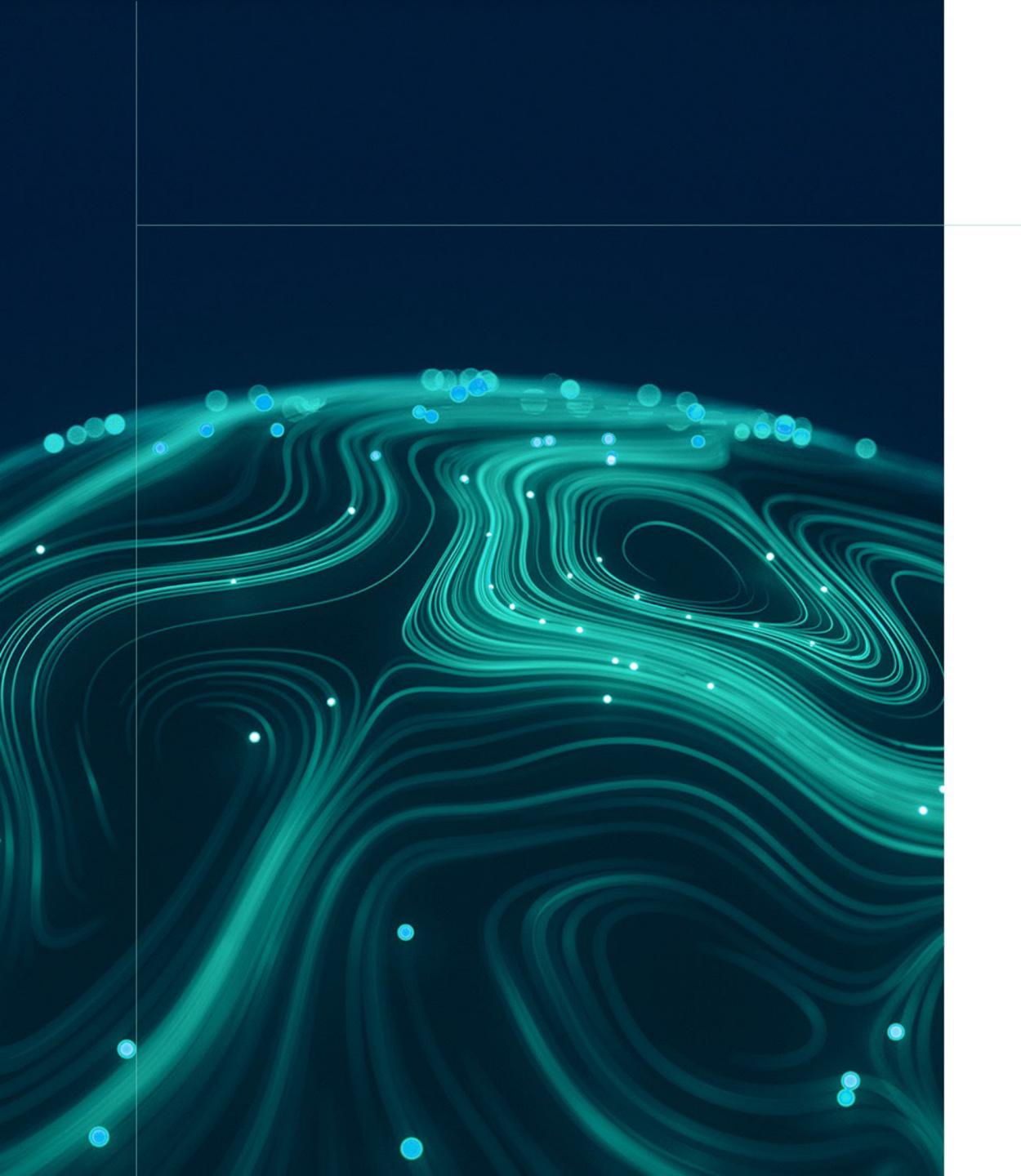
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Case study:

How trial design simulation supports successful funding rounds

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KerusCloud

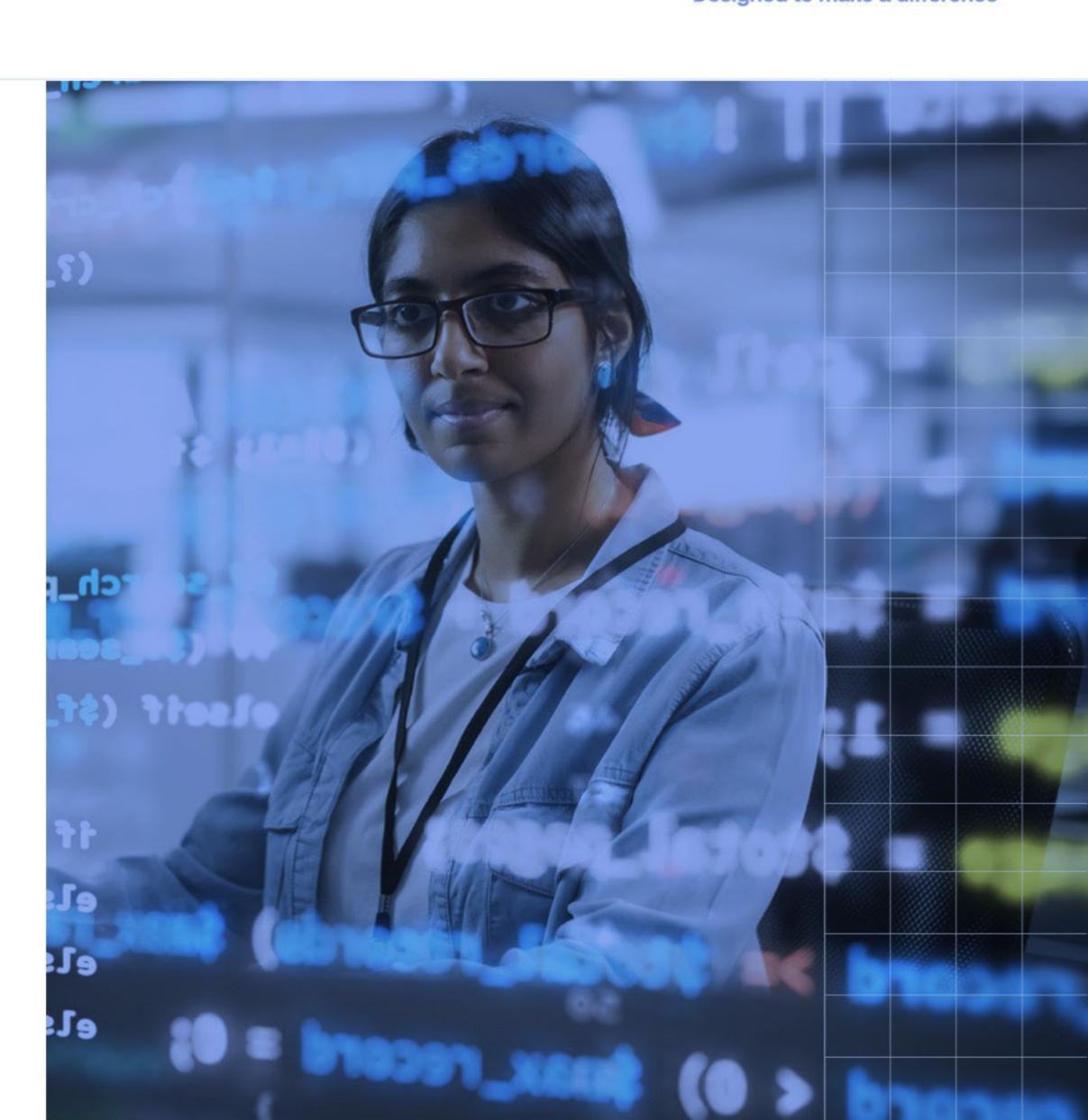
KerusCloud is a revolutionary simulation-guided study design tool that ensures clinical trials are designed effectively to collect the right data, in the right patients, in the right way. It use supports evidence-based design decisions to extensively de-risk real clinical studies, reducing development time, costs and patient burden.



The Challenge

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A small Biotech was developing new treatments for respiratory syncytial virus (RSV), a highly contagious virus that is a common cause of respiratory illness in immunocompromised individuals and bronchiolitis in infants under 2 years. Following completion of an observational study on viral load and immune mediator levels in nasal mucosal lining fluid over the course of RSV infection, the sponsor was seeking to design several early phase studies as part of a developmental programme evaluating the efficacy of its pipeline of candidate RSV therapeutics.







The Approach

To ensure the best use of resources across the RSV programme, Exploristics provided biostatistics support with the Statistical Consulting team optimising the design of these studies using ground-breaking simulation software, KerusCloud. To derisk the constituent studies, Statistical Consulting:

- Developed an RSV simulation framework in KerusCloud using data sourced from the literature and results from completed studies in RSV.
- Integrated the multiple sources of information about RSV and treatment effects
 to create a data repository within KerusCloud that recorded emerging knowledge
 relating to the treatment of RSV and mitigation strategies for key risks.
- Used KerusCloud to quantify the ability to detect differential treatment effects in each study and in patient subgroups as well as in alternative design scenarios.



The Results

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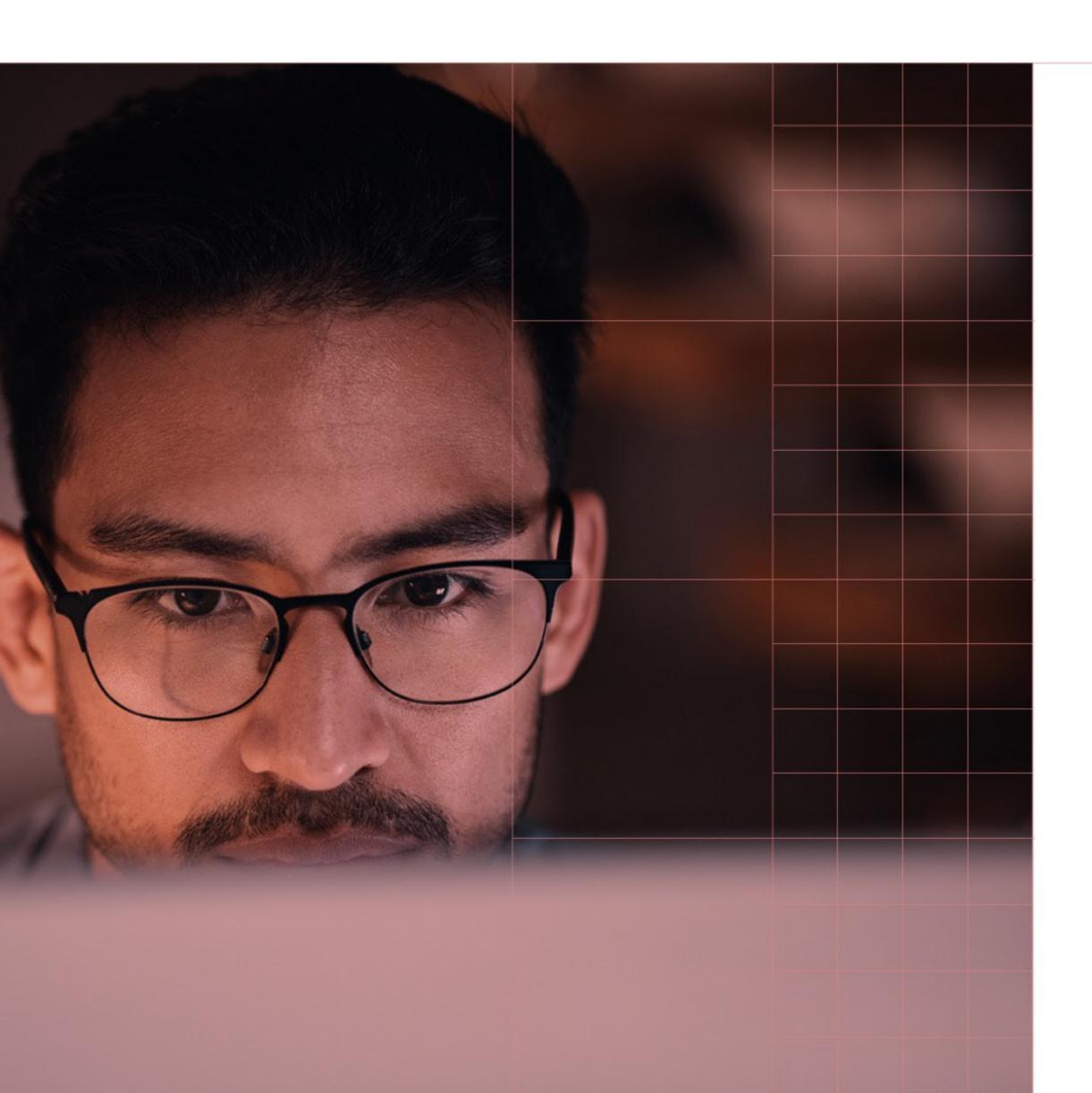
Study simulation in KerusCloud provided quantitative evidence that enabled the sponsor to:

- Identify the key factors for study success
- Optimise study designs within the programme to:
 - deal with the seasonal nature of RSV infection
 - reduce the time required for the trials from 3 years to 1 year









The Impact

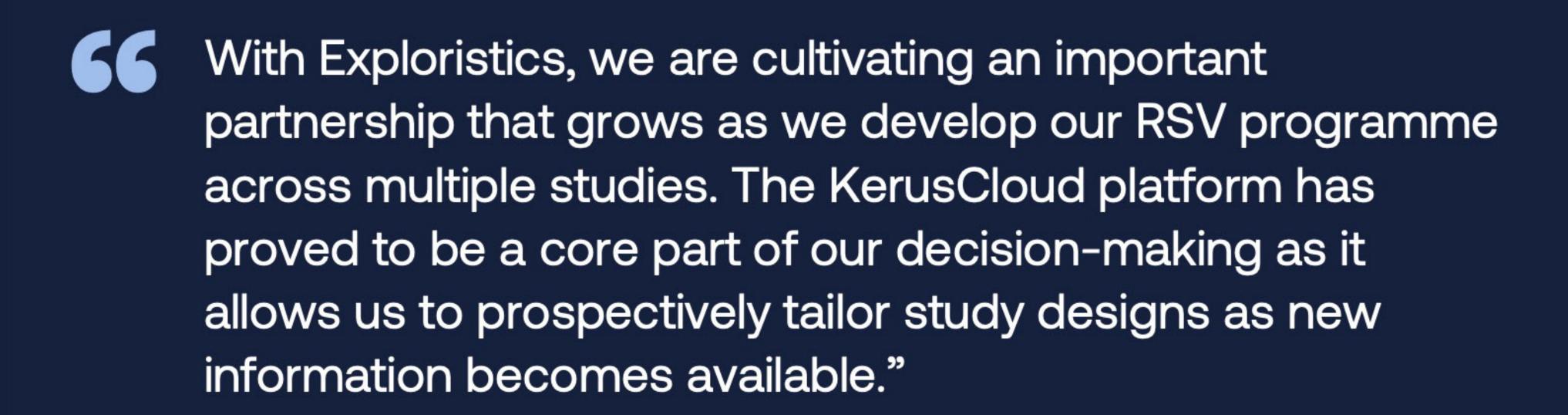
For this sponsor, trial design simulation with KerusCloud helped to:

- increase the probability of programme success
- dramatically drive down study timelines, risks, and costs
- provide evidence which was used to support raising US\$30 million in a subsequent financing round.



Testimonial





Exploristics Ltd.
24 Linenhall Street Belfast,
Northern Ireland BT2 8BG

Find out more T +44 (0) 28 9600 1996 info@exploristics.com

Chief Medical Officer, Biotech, UK