



## Presentation Jamie Edgin, Canada Parent Conference October 2017



**Our mission:** Funding a comprehensive portfolio of research to meaningfully improve memory, cognition, and independence in individuals with Down syndrome.





## A history of research success that began with involved families

2004

The Foundation, established in 2004 by a visionary group of families affected by Ds, embraced a bold approach—taking chances by **investing in groundbreaking research** and experiencing unprecedented results.

17

Consistently been the largest source of private funding for Ds cognitive research—granting **\$17M** to top academic institutions and biopharmaceutical companies, **leading to substantial concurrent funding** from the NIH and other sources.

10

The research that LuMind has funded has led to the discovery of multiple Down syndrome-specific cognition targets, including **10 potential therapeutic targets to improve cognition and prevent Alzheimer onset**.

4

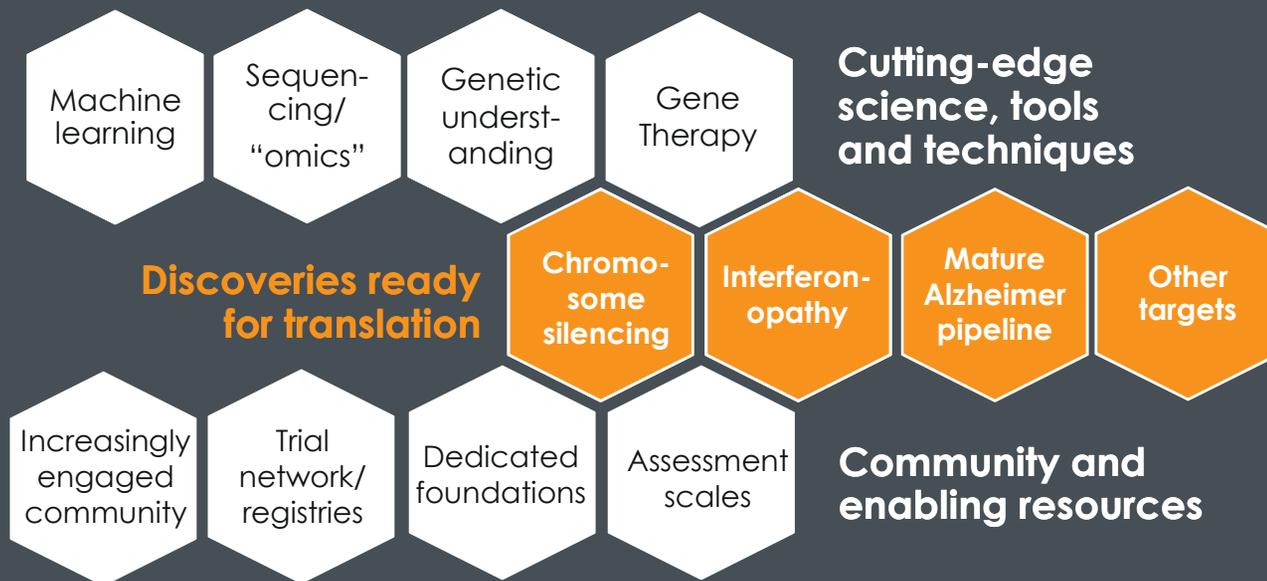
The LuMind RDS research approach, guided by a Scientific Advisory Board and Key Opinion Leaders in the field of Down syndrome research, is focused on collaborative **translational research** and has led to **4 clinical trials to date**.

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Until recently, there were no cognitive tests that could appropriately evaluate cognition progress in Ds. LuMind RDS funded the development of the **2 Ds-specific cognitive test batteries across life-span**.

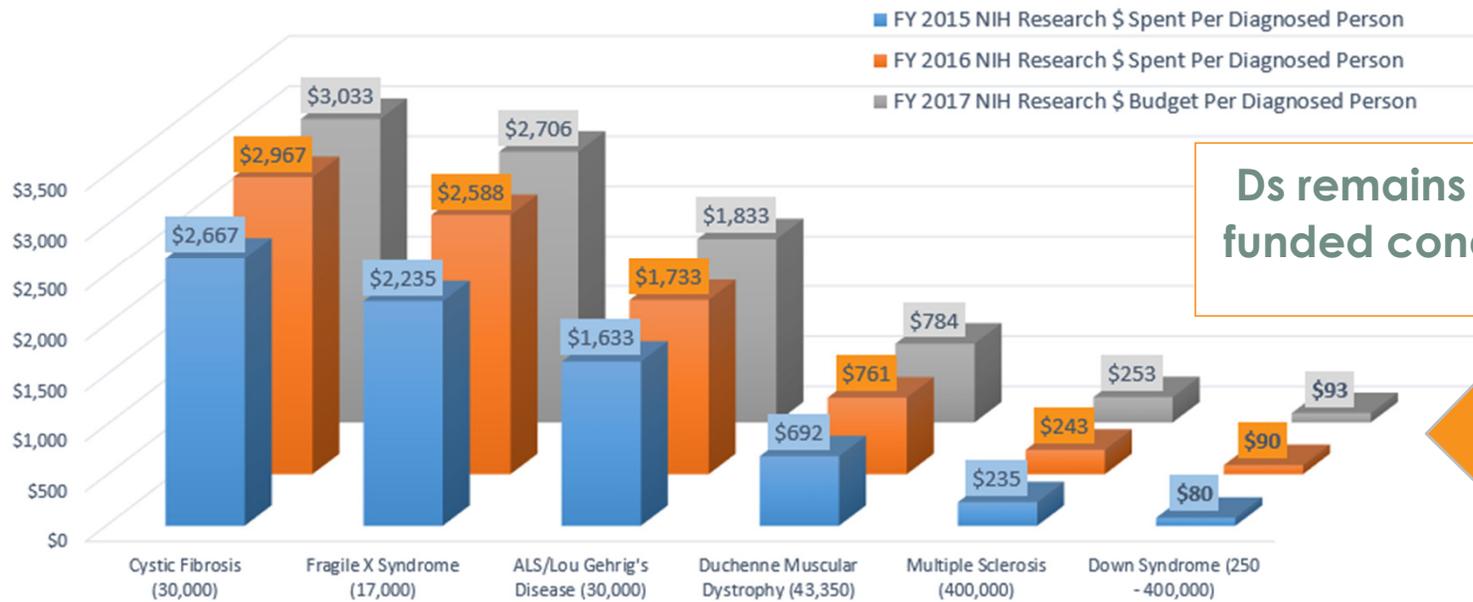


# Down Syndrome research ready for treatment breakthroughs



# Funding is the primary obstacle

National Institute of Health (NIH) Funding History 2015 Actuals - 2017 Estimates



Ds remains one of the lowest funded conditions by the NIH.





## LuMind is laser-focused on 4 research categories



### Prevent Alzheimer onset

- Encourage industry-led clinical trials of therapeutic approaches
- Develop necessary resources: assessment scales, registry, other



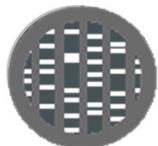
### Improve cognition

- Translate Down syndrome-specific approaches to clinical trials
- Validate Down syndrome-specific cognition targets



### Develop gene therapies

- Silence extra chromosome
- Restore the right level of specific gene(s)

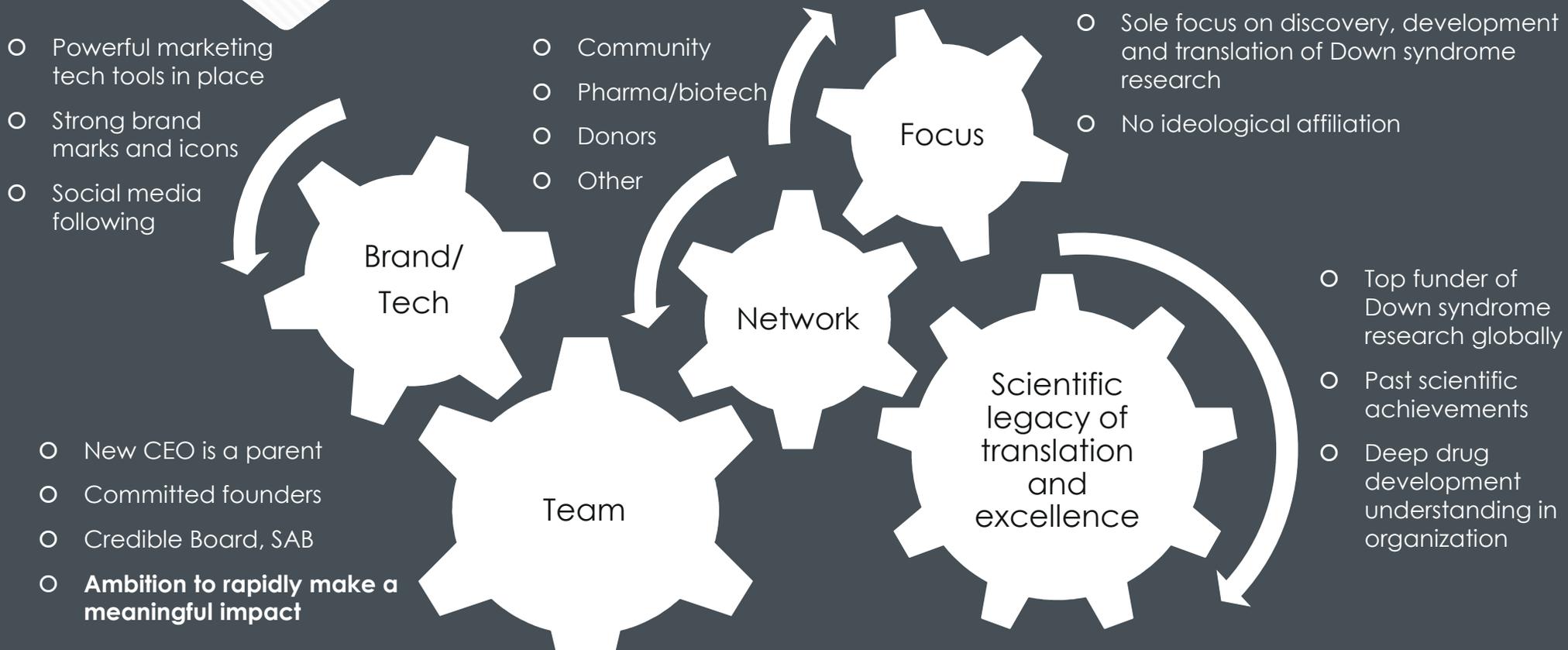


### Advance understanding

- Discover novel targets (stem cells, sequencing/phenotyping)
- Improve mouse models to better test novel targets



# LuMind accelerates research by leveraging a strong set of assets





## LuMind in numbers in FY2017

~85% of \$ to  
research

\$2.3M  
revenue

~25k  
Facebook  
followers

**5 FTES**

**9 Board  
members**

\$1.8M for 10 grant projects funded



## Get involved!

1. Get informed about research on: [www.LuMindRDS.org](http://www.LuMindRDS.org)
2. Follow us on Facebook, Youtube, LinkedIn, Twitter.
3. Participate in surveys, studies and clinical trials.
4. Host a fundraiser or donate.

Any questions we are here to answer at [LuMindRDS@LuMindRDS.org](mailto:LuMindRDS@LuMindRDS.org)