



NeuroDevNet 

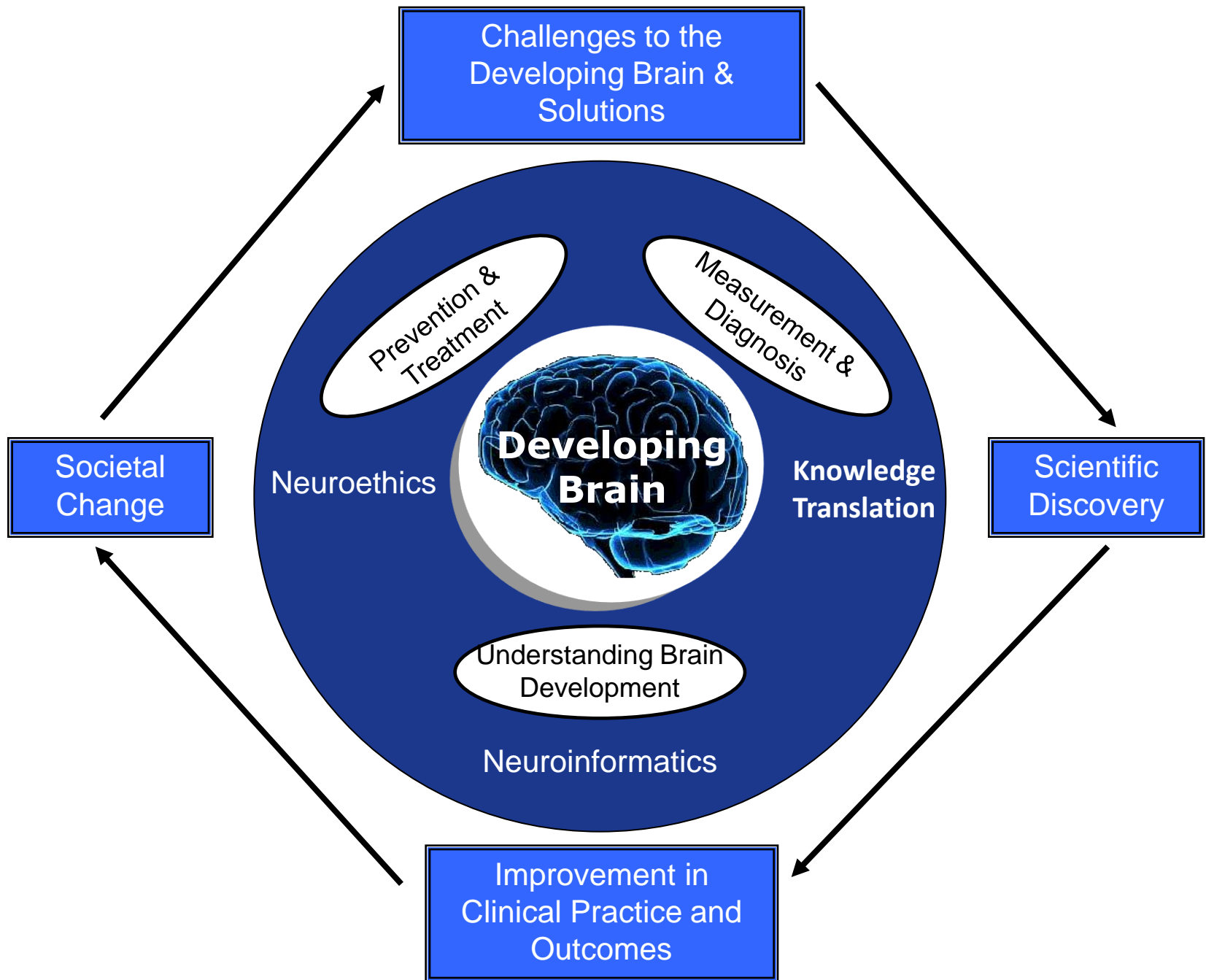
WORKING TOGETHER
FOR **HEALTHY BRAINS**

NeuroDevNet: Opportunities in Brain Development Across Canada

Dan Goldowitz, Scientific Director

September 14, 2010







Selection of Initial Research Projects

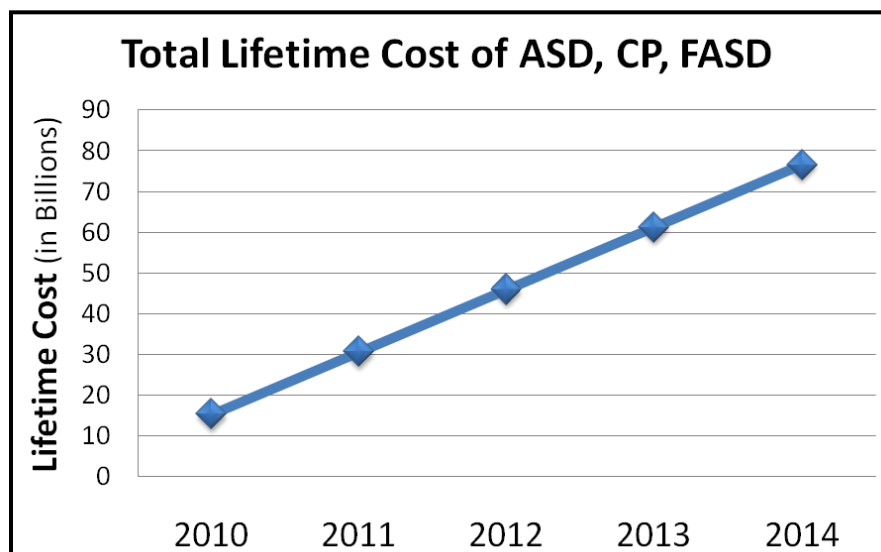
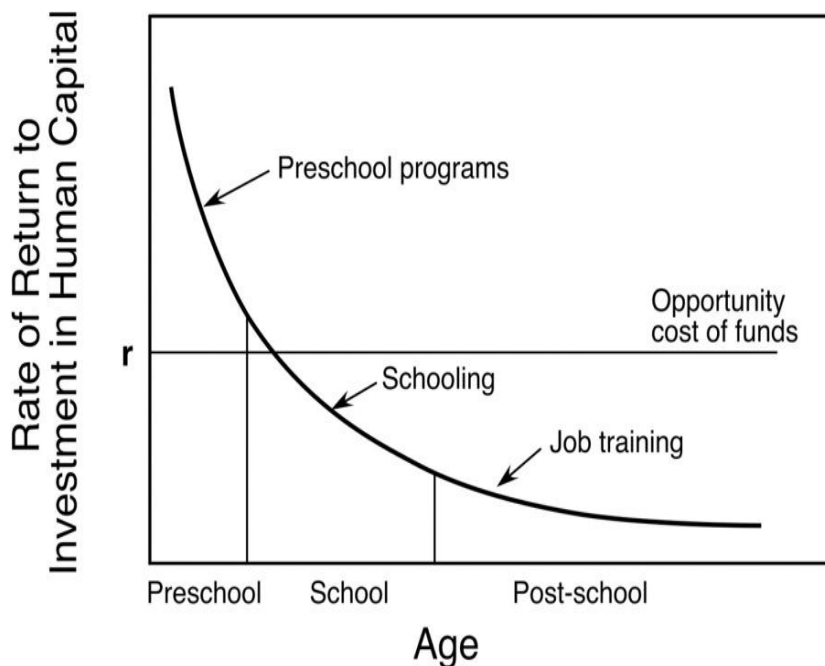
- Each disorder sheds light on the much larger spectrum of brain developmental disorders that affect Canadian children.
- Each disorder reflects roles of genes, environment, and GxE in brain function.
- Each disorder represents a significant socioeconomic burden to Canada.
- Our collective expertise across Canada will make major inroads into understanding and treating each disorder.
- Three demonstration projects were selected (ASD, CP, and FASD) and an Opportunities Initiative.



Costs to Society

“When we fail to provide children with what they need to build a strong foundation for healthy and productive lives, we put our future prosperity and security at risk.”

(National Scientific Council on the Developing Child, 2007)





Overview of NeuroDevNet Infrastructure





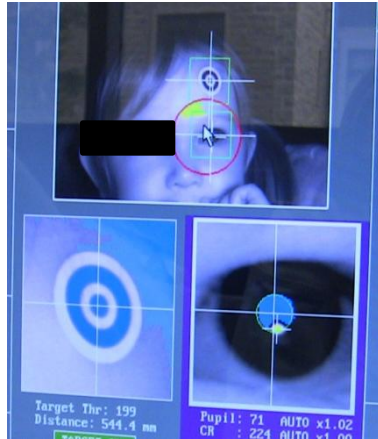
NeuroDevNet 

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**Fetal Alcohol Spectrum Disorders:
Gene-environment interactions;
predictive biomarkers;
and the relationship between structural
alterations in the brain and functional outcomes**

NeuroDevNet Initiative on FASD

Eye Tracking

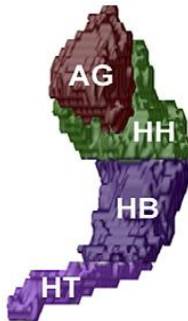


Genetic Susceptibility



**Fetal Alcohol
Spectrum Disorder
(FASD)**

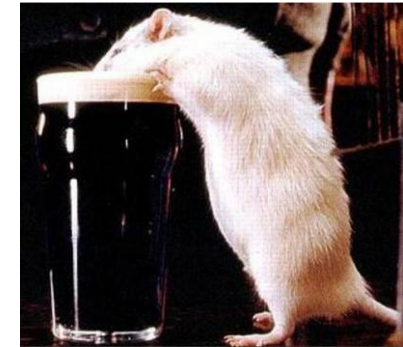
Brain Volumes



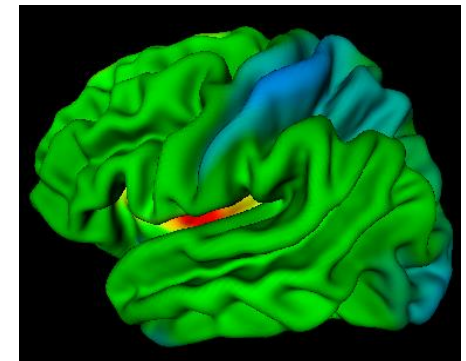
Cognition & Behaviour



Animal studies



Cortical Thickness





Network Investigators & Collaborators

Queen's University

James Reynolds

James Brien

Doug Munoz

Garth Smith

Dawa Samdup

University of Alberta

Christian Beaulieu

Carmen Rasmussen

Gail Andrew

Universite de Montreal

Marie-Pierre Dube

University of British Columbia

Sterling Clarren

Joanne Weinberg

Dan Goldowitz

Michael Kobar

University of Southern California

Laurent Itti

University of Ottawa

Sarah Nikkel

Virginia Bourget

University of Toronto

Steve Scherer



NeuroDevNet Opportunities

TRAINING

INTERNSHIPS

WORKSHOPS

ANNUAL GENERAL MEETING

RESEARCH FUNDING (Opportunities Initiative)

KNOWLEDGE TRANSLATION and ADVOCACY



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Jim Brookes, Internships and Business Opportunities

Patricia Fortin, Knowledge Transfer

Jennifer Parisi, Communications