

# The Dementia Challenge

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Canadian Academy of Health Science  
2015 Forum and Annual General Meeting  
September 15

**VIVRE PLUS VIVRE MIEUX**

**Institut du vieillissement**

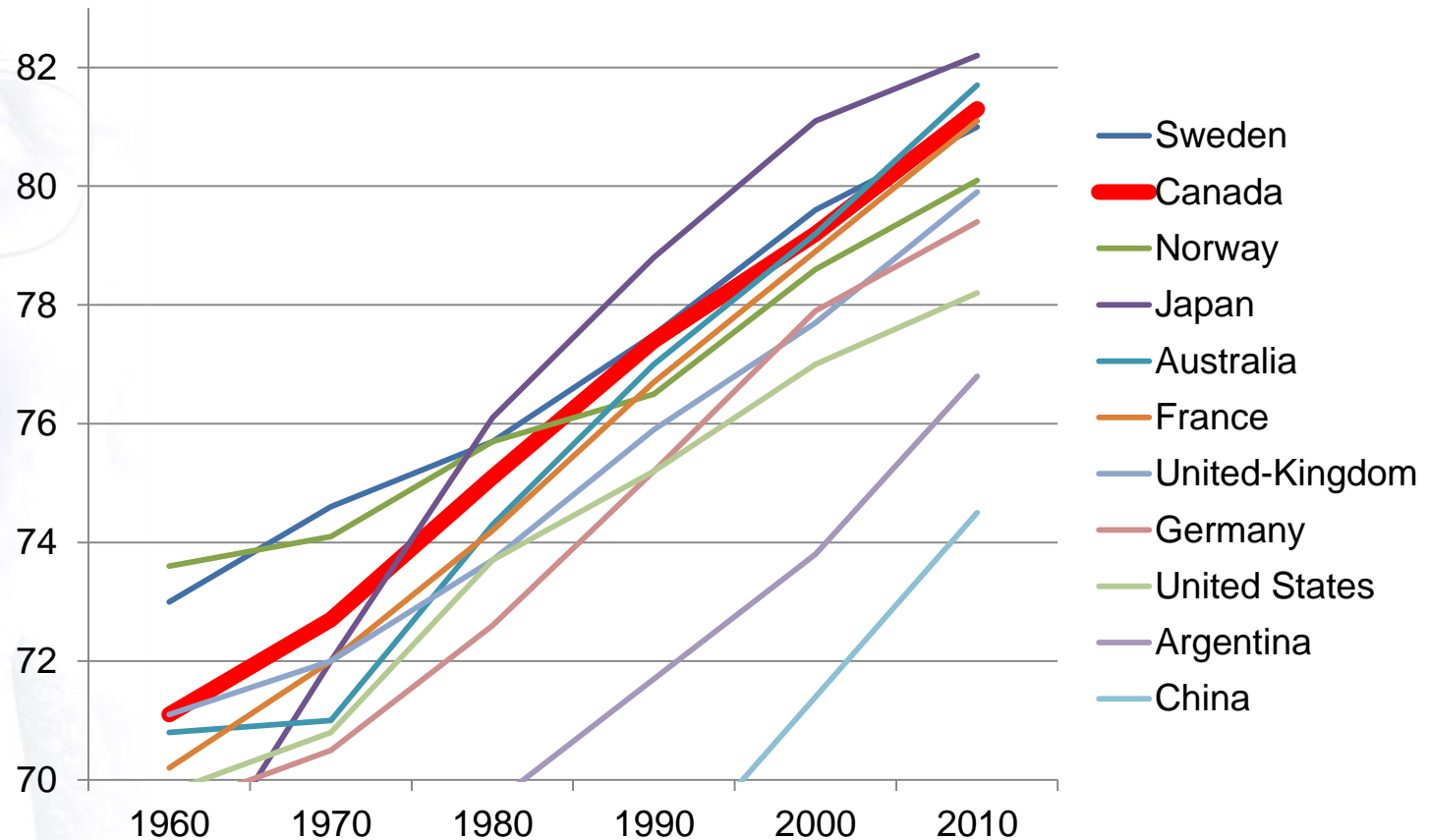
**Institute of Aging**

**LIVING LONGER LIVING BETTER**

# Aging – Canada and the World

## Life Expectancy 1960-2010

Source: Adapted from primary sources: WHO, World Bank, UNESCO, CIA and individual country databases for global health and causes of death. CDC, NIH and individual state and county databases for verification and supplementation for USA data

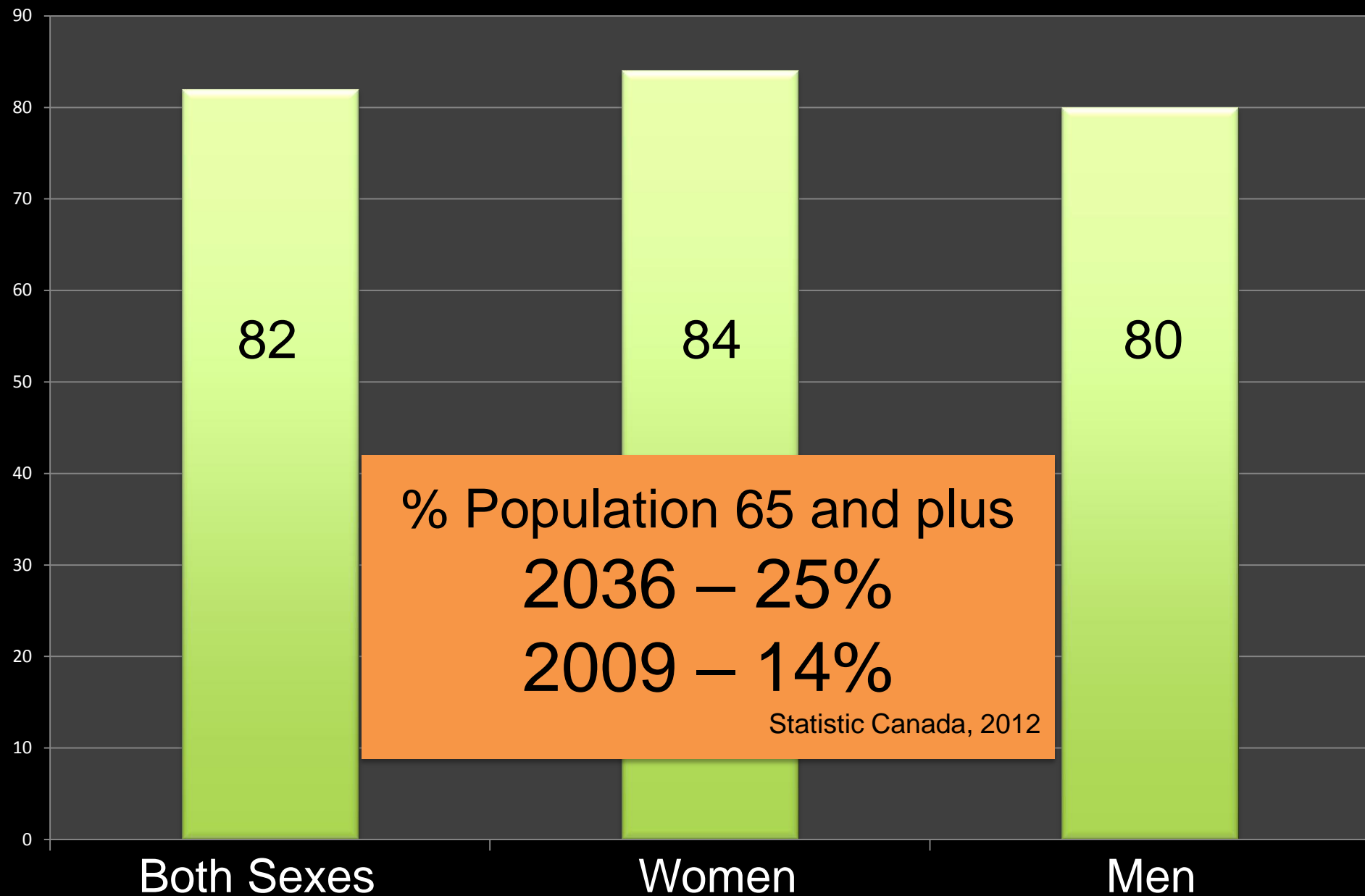


CIHR IRSC

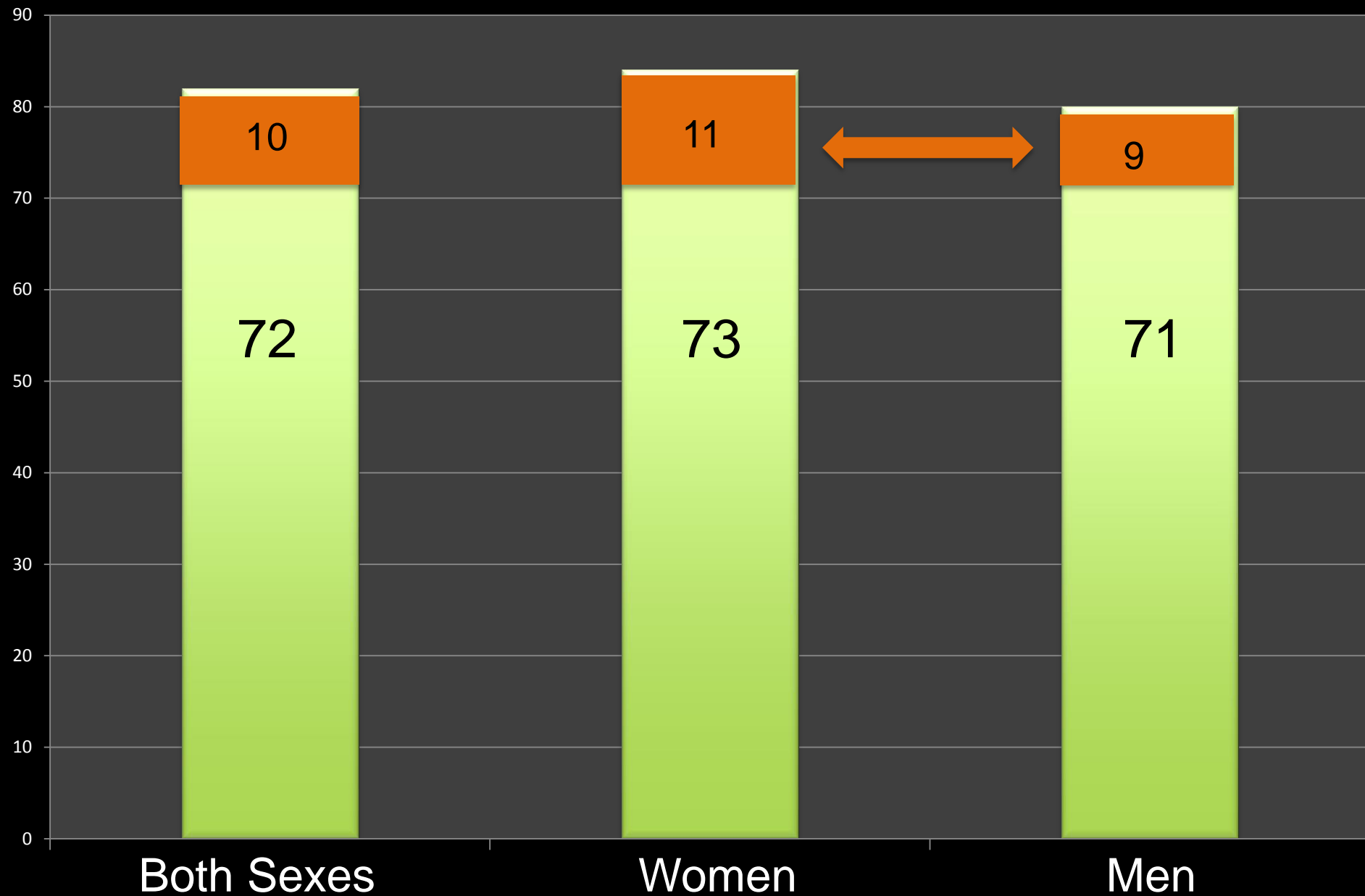
Canadian Institutes of Health Research / Instituts de recherche en santé du Canada

Canada

# Canada - Life Expectancy at Birth

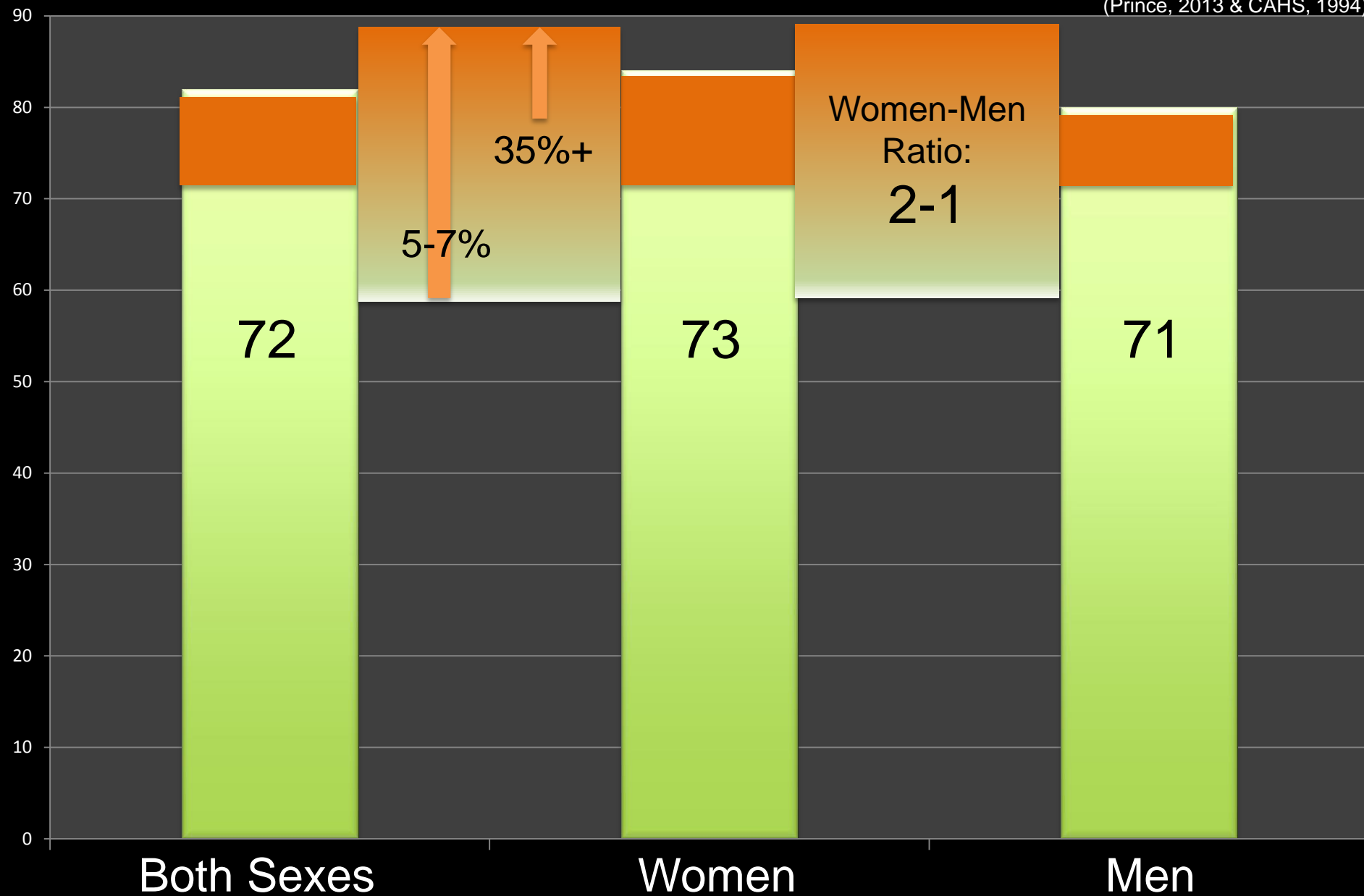


# Canada – Healthy Life Expectancy at Birth

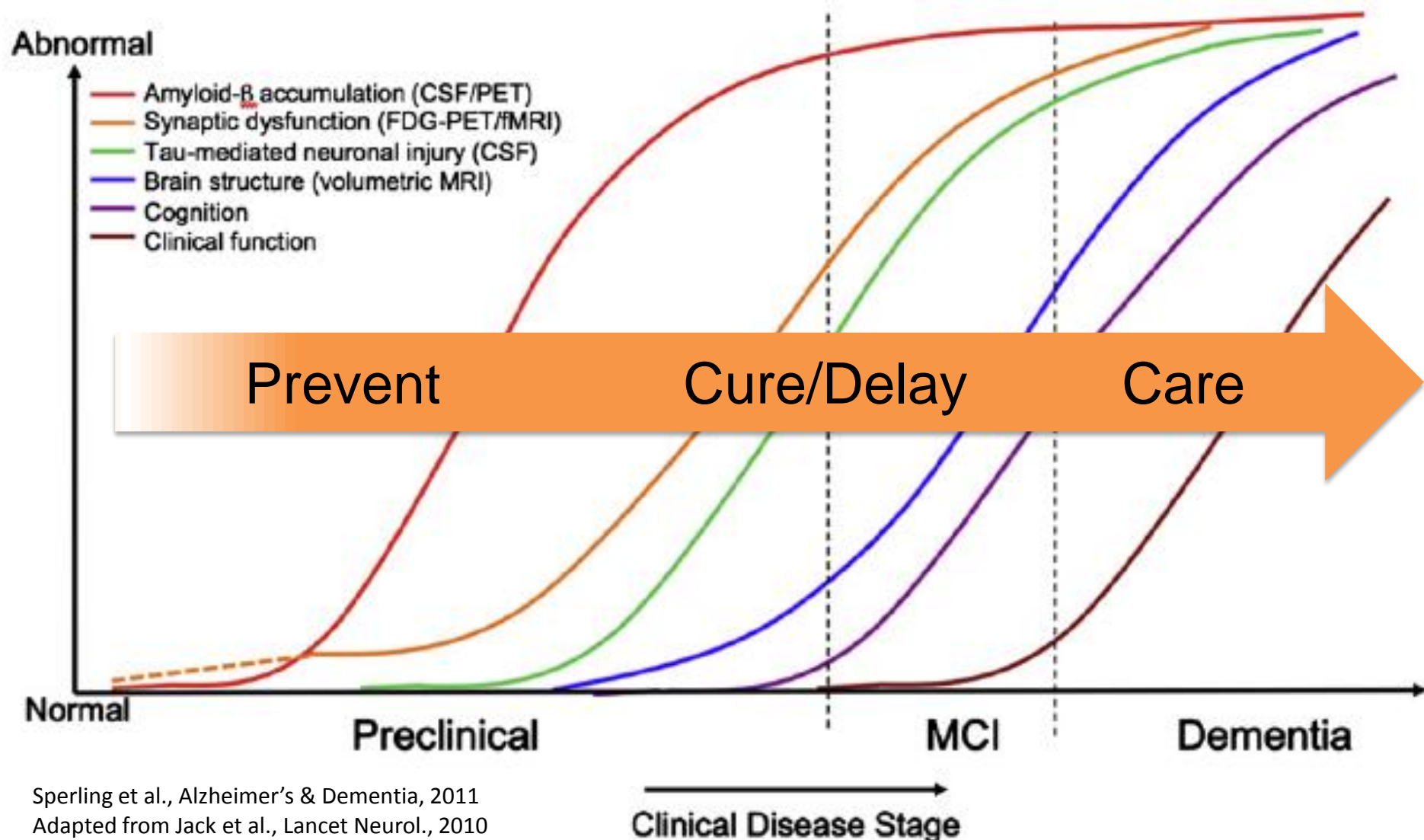


# Estimated Prevalence of Dementia

(Prince, 2013 & CAHS, 1994)

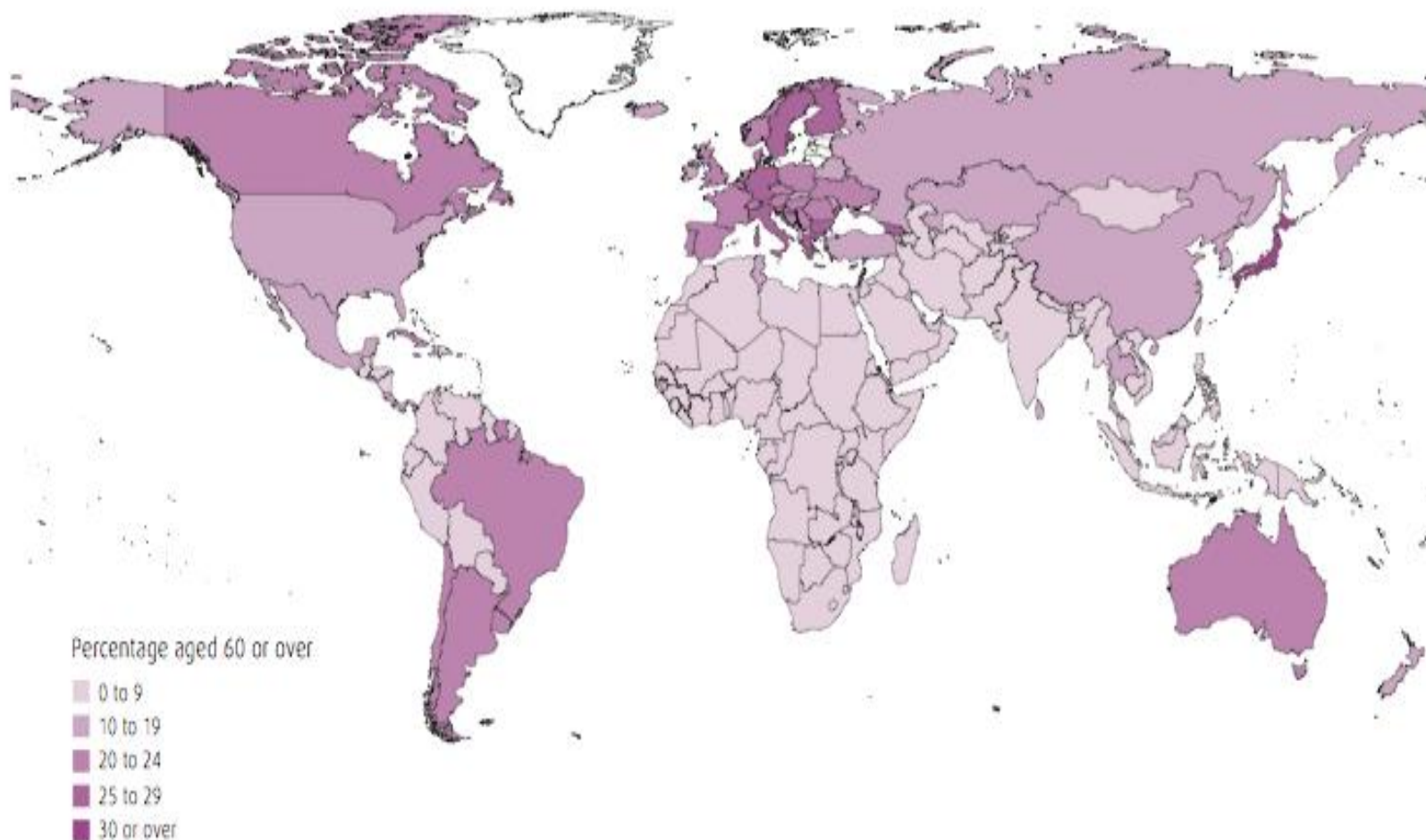


# Neurodegenerative Diseases Causing Dementia: A Life Course Challenge



# % of Population Over 60 - 2012

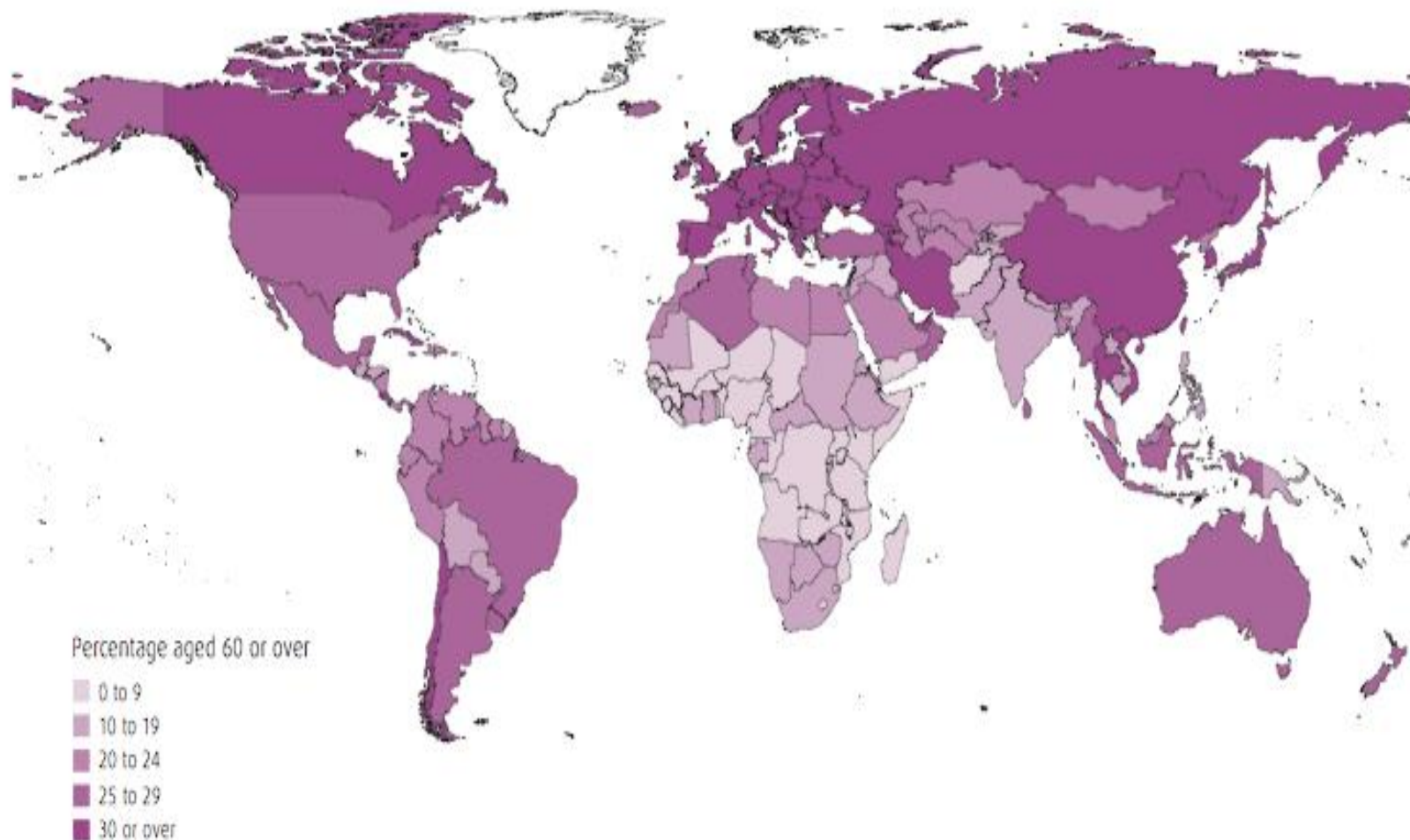
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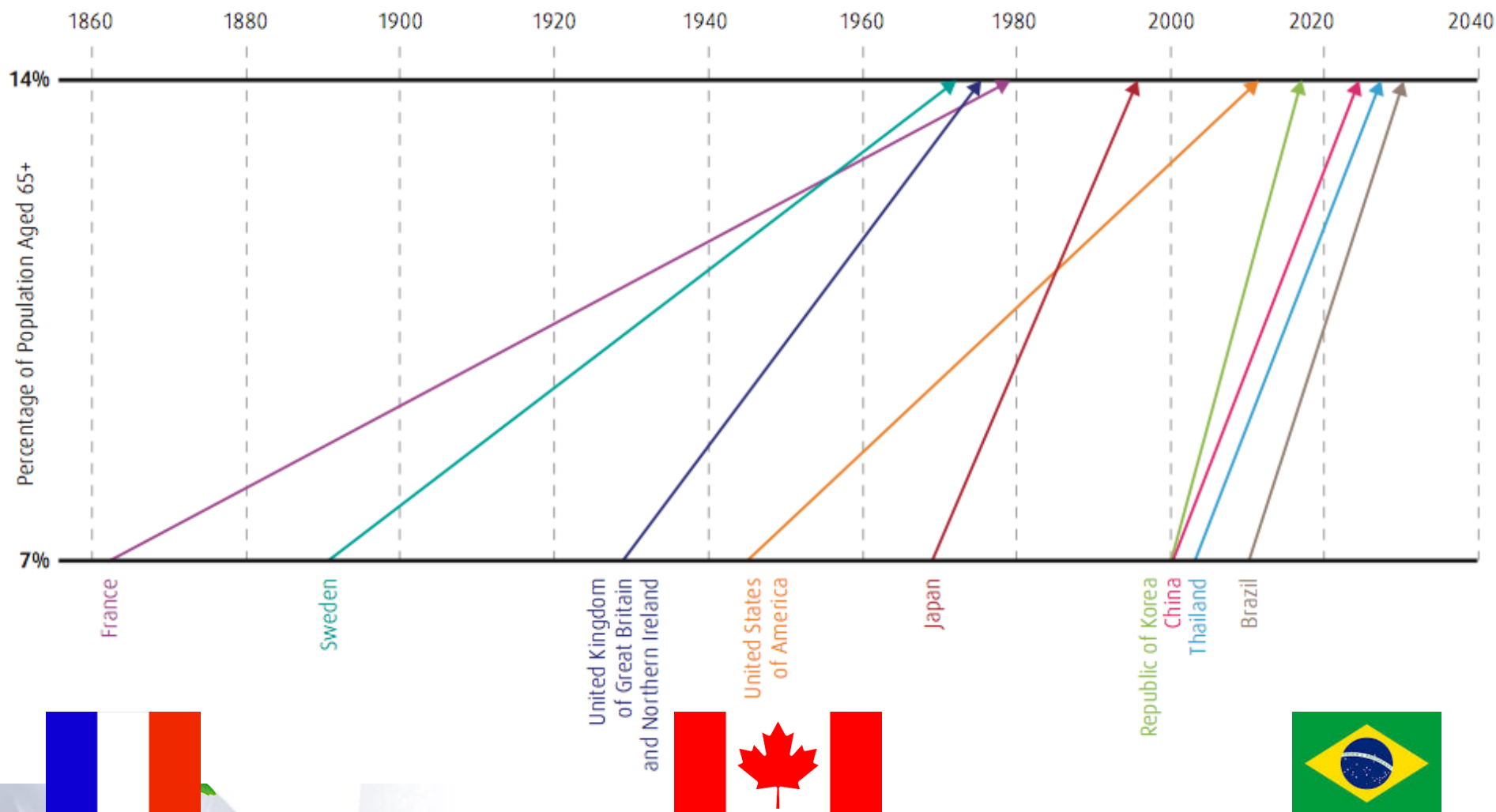
# % of Population Over 60 - 2050

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**Figure 3. The speed of population ageing. Time required or expected for population aged 65 or older to increase from 7% to 14%**



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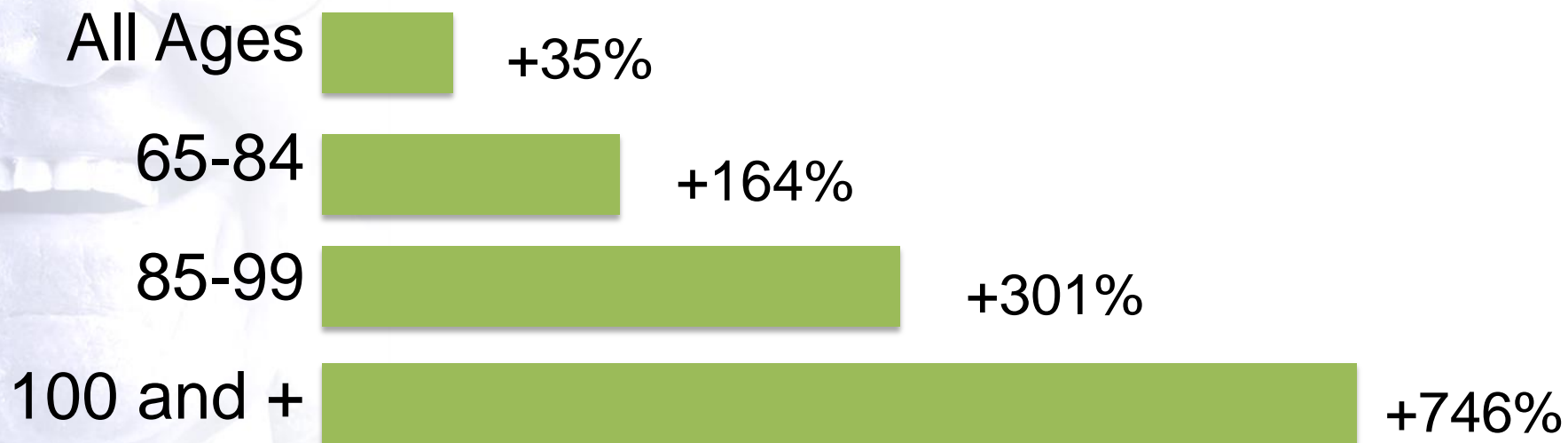
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**Canada**

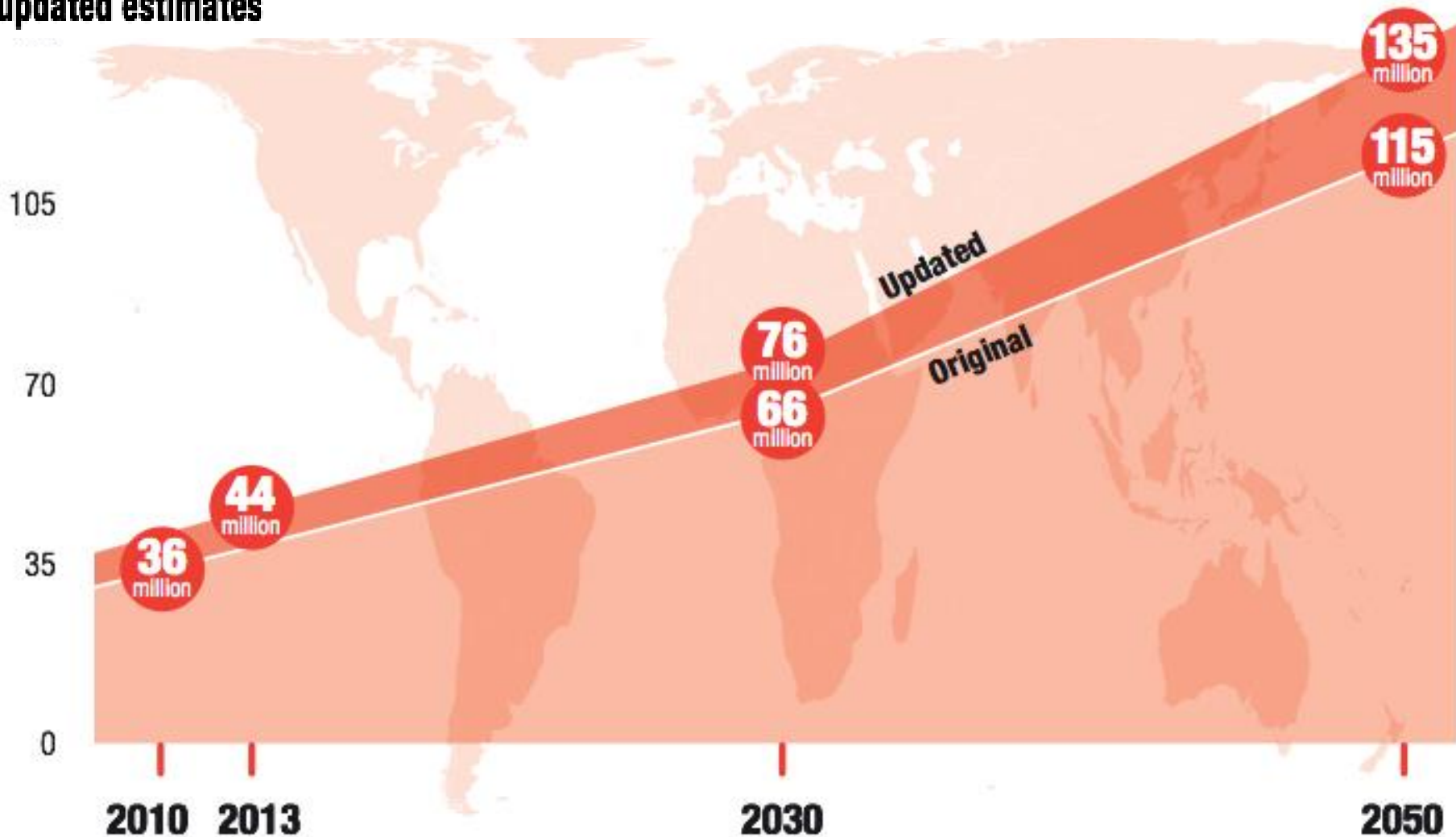
# % of Growth of Population 2005-2040

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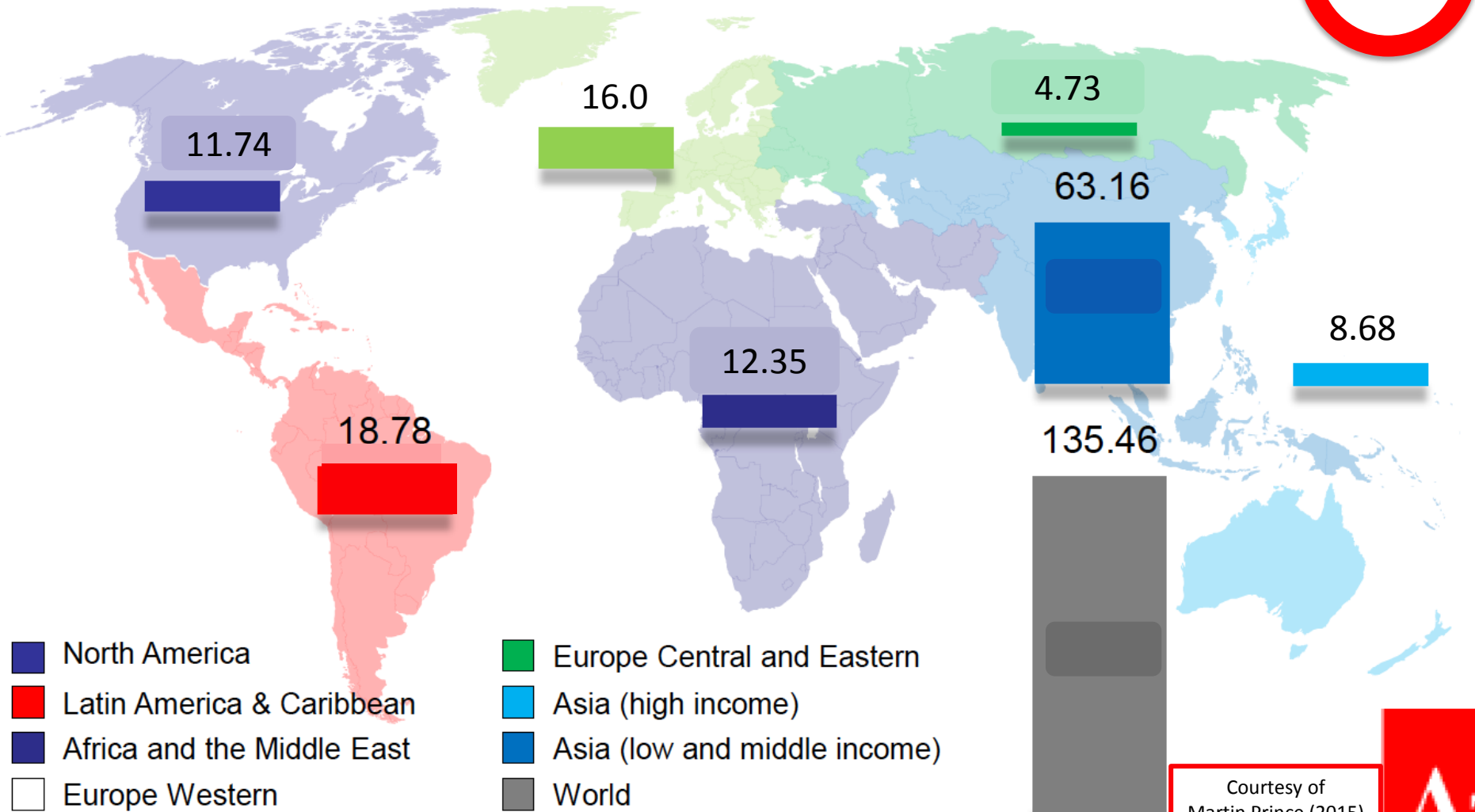
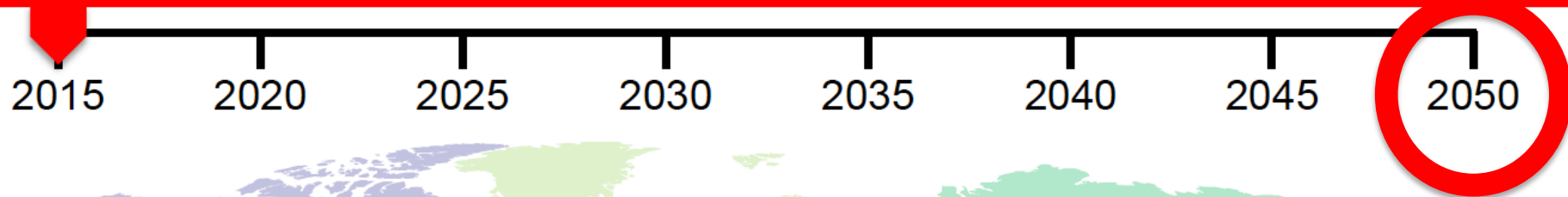


# Increase in numbers of people with dementia worldwide (2010-2050), comparing original and updated estimates

People with dementia (millions)



# Numbers of people with dementia by world region (2015-2050)



# Dementia – A Public Health Issue

**Alzheimer's disease** is the most common form of dementia.

Every **4 seconds** somebody in the world is diagnosed with dementia.



## Economic Cost of Dementia





# Rising Tide:

## The Impact of Dementia on Canadian Society

A study commissioned by  
the Alzheimer Society

Now **500,000**  
Within a Generation **1,100,000**

Canadians with Alzheimer's disease

Now **\$15 billion**  
Within a Generation **\$153 billion**

Cost to Canada

Now **231 million hours**  
Within a Generation **756 million hours**

The time Canadians will be prod



# DEMENTIA

## A PUBLIC HEALTH PRIORITY



# UK Call for Action

In December 2013, British PM David Cameron brought the **dementia** challenge to the international stage.



*"If we are to beat dementia, we must also work globally, with nations, business and scientists from all over the world working together as we did with cancer, and with HIV and AIDS. This is going to be a bigger and bigger issue; the key is to keep pushing."*

David Cameron, December 11, 2013 (BBC News)





Global action against dementia  
Action mondiale contre la démence

Second Global Dementia Legacy Event  
Co-hosted by Canada-France

# Harnessing the Power of Discoveries: Maximizing academia-industry synergies

September 11-12, 2014  
111 Sussex Drive, Ottawa, Canada

## Program

<http://www.cihr-irsc.gc.ca/e/47902.html>



# Global action against dementia Action mondiale contre la démence



## World



## Dementia Research and Care

CAN BIG DATA HELP?



OECD



ONTARIO  
BRAIN  
INSTITUTE

INSTITUT  
ONTARIEN  
DU CERVEAU



Institute of Health Policy, Management & Evaluation  
UNIVERSITY OF TORONTO

### An Independent Report on the Global Regulatory Approach to Achieve the Development of Safe, Effective and Affordable Drugs for Dementia

#### Executive Summary and Recommendations

Raj Long



# Global action against dementia Action mondiale contre la démence

FIRST WHO MINISTERIAL CONFERENCE ON  
GLOBAL ACTION AGAINST DEMENTIA

16-17 March 2015, Geneva



World Health  
Organization

Call for Action  
Adopted by 80 Countries



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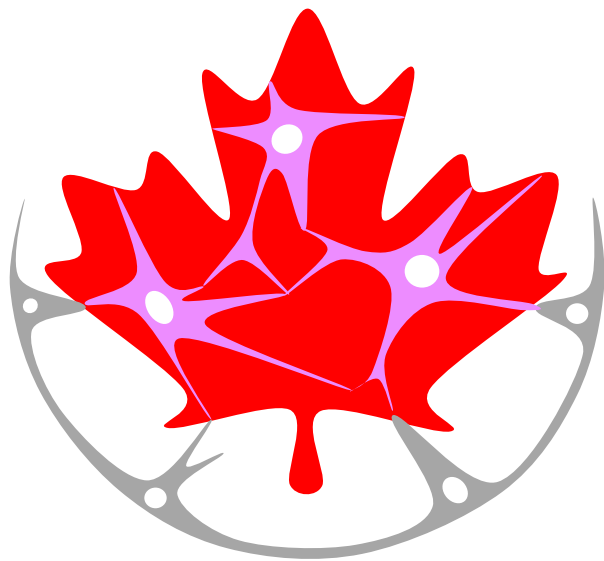


# NATIONAL DEMENTIA RESEARCH AND PREVENTION PLAN



[Canada.ca/Dementia](https://Canada.ca/Dementia)

# CIHR Dementia Research Strategy



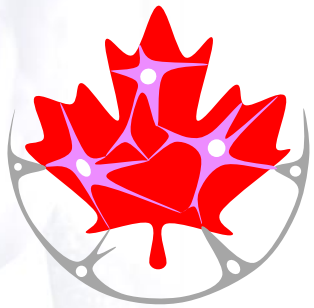
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Health Research

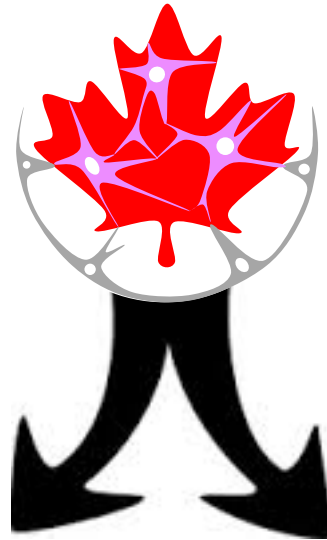
Instituts de recherche  
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Canada

# CIHR Dementia Research Strategy



International



CCNA CCNV

Canadian Consortium on Neurodegeneration in Aging  
Consortium canadien en neurodégénérescence associée au vieillissement



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Canada

# Supporting International Collaborative Research Centres of Excellence in Neurodegeneration



Gemeinsam Lösungen finden

Finding solutions together

Trouver la solution ensemble

Scoprendo soluzioni insieme

Samen oplossingen vinden

SE  
TR:365



# Supporting International Collaborative Research JPI– Neurodegenerative Diseases



JPND is the largest global research initiative  
aimed at tackling the challenge of neurodegenerative diseases

[Home](#) [About](#) [Major Activities](#) [Supported Projects](#) [News & Media](#) [Contact](#)

## WHAT COUNTRIES PARTICIPATE IN JPND?

[LEARN MORE](#)



# THE RISING TIDE OF DEMENTIA IN CANADA FACING THE CRITICAL CHALLENGE BY 2025

