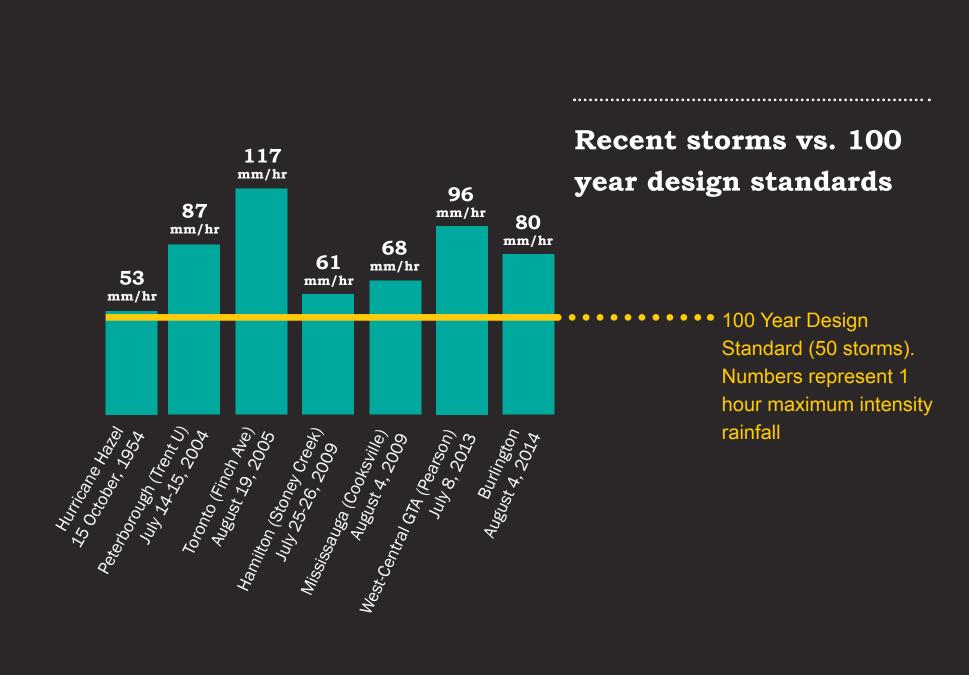
### What's up with the weather?

What it means for citizens

Of extreme weather events that happened in Ontario since the -Public Safety Canada.

Rise in Ontario 19 19 18 **19** 

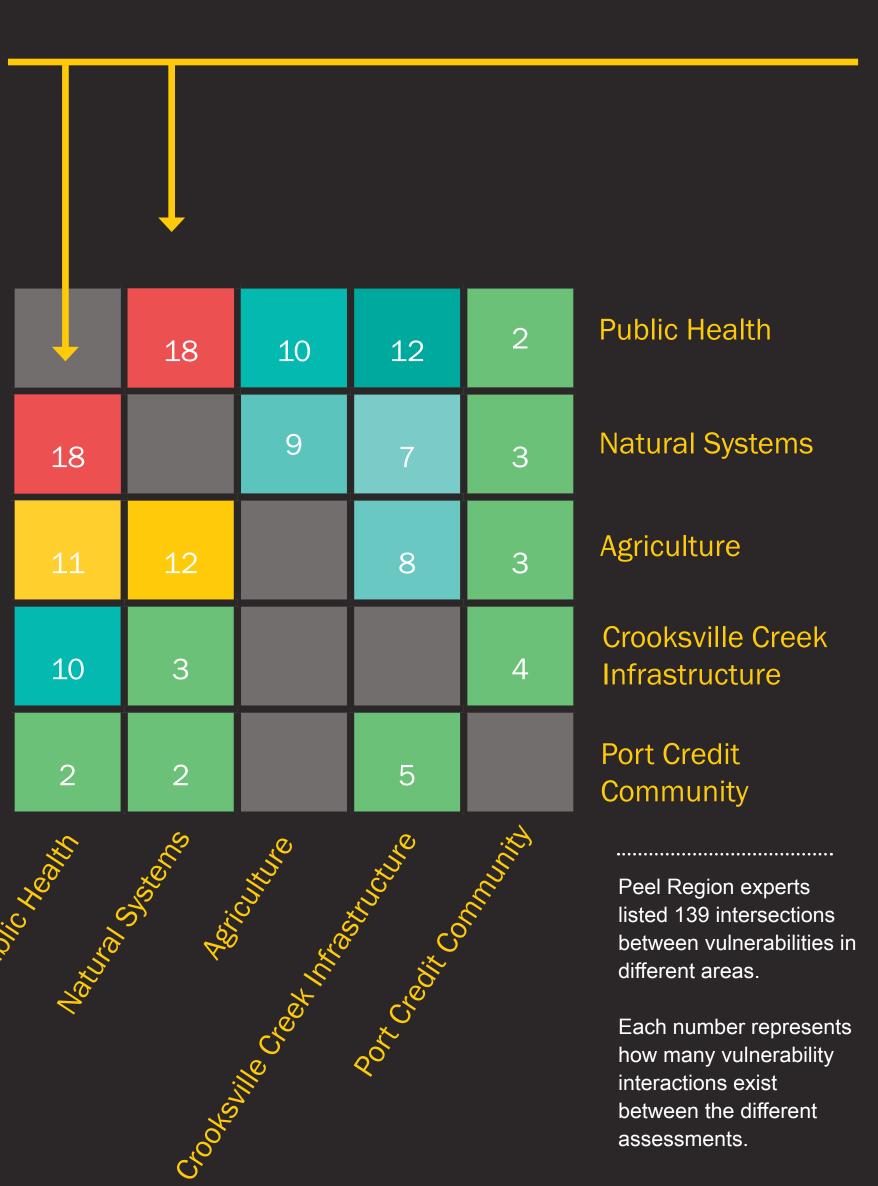


## How vulnerable are we?

Looking at the root causes

Vulnerability interactions

Highest interaction found between Natural Systems and Public Health.



in Mississauga

Mississauga affects

City News, July 8, 2013

Power outage in

thousands for hours

"The water was about up to my stomach in the car and the power just shut off."

Energy

2,000 in and around Orangeville.

> Caledon power outages stretch into 6th day

CTV Barrie, December 27, 2013

"Huge trees even older than me

believe it or not and they have

snapped like match sticks and

come down."

Doctors concerned, increase in Ontario

Potential Spread of Lyme

Projected increase in the geographic range

Estimated present day limits (using 1971-2000 data)

Approximate locations of established bc scapularis

The Weather Network - July 25th, 2015

10,000

annually by 2020

CTV news - June 15, 2015

cases of Lyme Disease

"The prudent thing now is to plan for the worst and hope for the best."

Brampton Guardian, Jan 08, 2014

million

Government

25,000

Natural Systems

Brampton's ice storm

cost could reach \$51.3

\$171 million

Toronto ice storm cost

extreme weather costs

expected to soar to

\$106 million, as

city \$171 million

The National Post, Jan 8, 2014

"And of course I'm more fearful

about the next few years. We've

had these hundred-year storms

almost back to back and we need

a partnership amongst all three

levels of government."

\$850 million
In insurance property damage

Toronto's July flood

listed as Ontario's

most costly natural

disaster

The Star, Aug 14, 2013

Business

Agriculture

Crop insurance claims skyrocketing in Ontario Toronto Sun, 01 Aug 2012

"The cleanup the next day was the really sobering moment. There were a couple of thick inches of mud on our basement floor and a really horrible smell. That's when the reality kicked in."

"Although it's still too early to assess the overall impact to Ontario crops, we know that some crops will not survive."

future proof?

Water management

Property Damage

Transportation

Health

Crop failure & damages Strain on water quality & quantity

> Loss of credibility Increased liability Increased disaster relief funding

Strain on food supply & distribution

Disruption to movement of people & goods Economic losses

Government revenue decrease

Increase in injury, illness and death

Use evidence to prioritize and invest in prevention

Strengthen partnerships

Scale up effective pilot projects

Measure & report outcomes

Is Peel

Agriculture

Business Owner

Effective

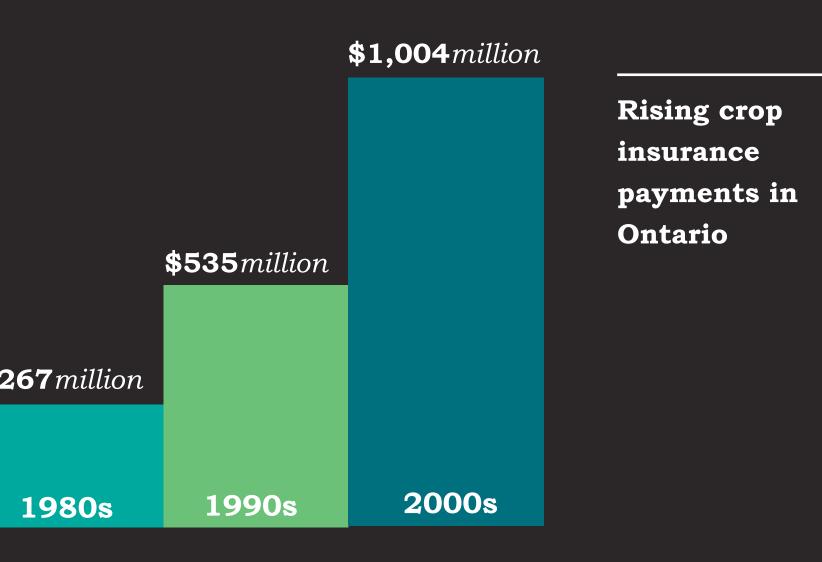
Health Care



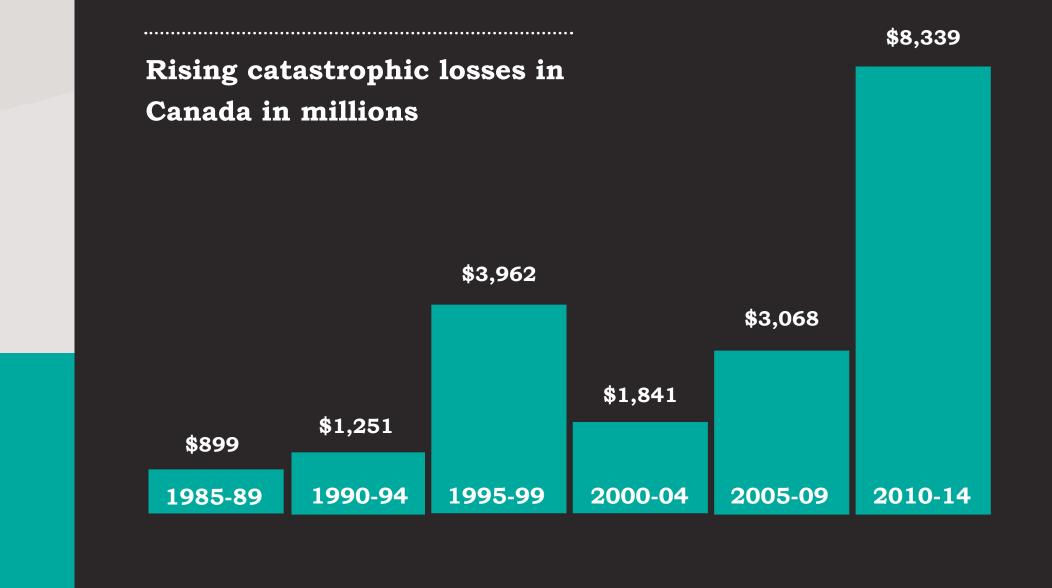


# What are the true costs?

The cost of business as usual







## What can we do?

Business as usual is not an option



each \$1 spent on pre-disaster -The Congress of the United States -Congressional Budget Office

#### HAPPENING IN PEEL

Mississauga Lakeview Neighbourhood

annual rain events.
 The LID bioswale shows a load reduction of 89 per cent removal for total suspended

Mississauga IMAX Parking Lot

Brampton County Court Boulevard 1,658 m area.

Brampton has undertaken. The Caledon Community Green Fund



uncovered up to Sept. 2015

Interdependencies