

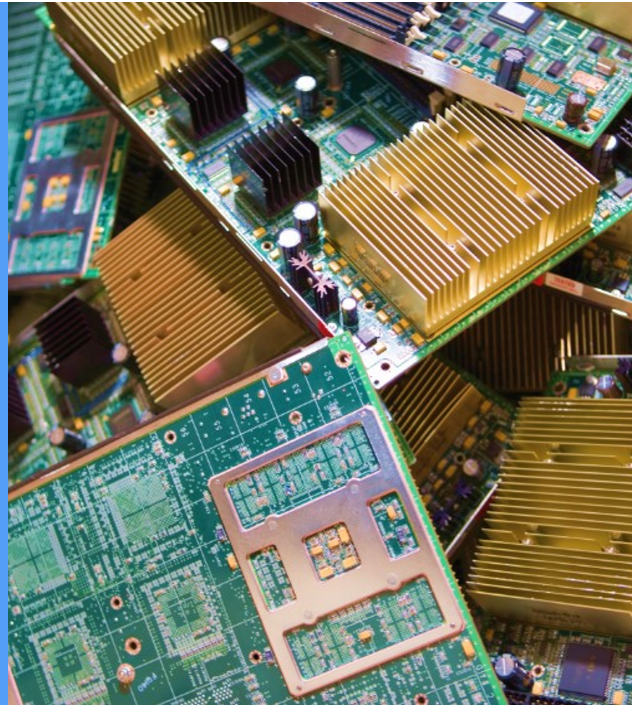
## GTLLI: Circular Economy & Technology – hand out

Frances Edmonds Head of Sustainable Impact HP Canada

### Why is technology a “poster child” category for the Circular Economy?

An estimated 57.4M tons of electronic waste was generated in 2021—outweighing the Great Wall of China.<sup>1</sup>

The global ICT industry generates as much CO2 as the aviation industry = 2% of global emissions  
- 50% from manufacturing &  
- 50% from energy use.<sup>2</sup>



57

## OPPORTUNITIES TO ADVANCE THE CIRCULAR ECONOMY IN CANADA



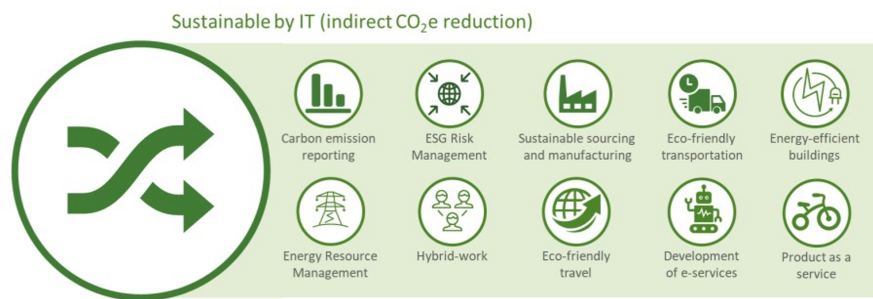
## ADVANCING THE CIRCULAR ECONOMY IN CANADA

From Turning point – the expert panel on the Circular Economy in Canada by the Canadian Council of Academies

Whilst technology generates a large footprint it also has huge opportunities for a handprint: A great example that plays into the circular economy is the provision of product as a service.

## How to reduce your carbon impacts

### 2) Handprint



Source Sustainable IT playbook for Technology Leaders

Device as a Service = the provision of computers as a service rather than buying & owning a computer.

## DaaS has lower environmental impacts than retail for all Lifecycle Assessment categories

Compared with transactional sales, DaaS:

- reduces GHG emissions by 25%,
- improves resource efficiency by 28%,
- decreases ecosystems impacts by 28%,
- and reduces human health impacts by 29%.

Impact reductions range between 25 - 30% compared to the linear model.

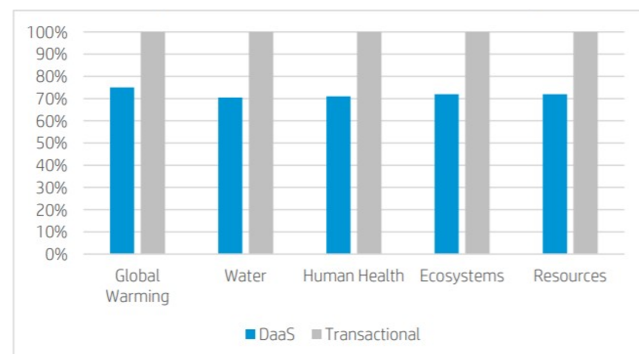


Figure 1: Comparison of Device as a Service to traditional transactional model