

McKenna, Neil

From: Kim, Sabrina
Sent: Tuesday, April 14, 2020 9:22 AM
To: Stickney, Matt
Subject: Fwd: PPE_Status_Update april 7.pptx
Attachments: PPE_Status_Update april 7.pptx; ATT00001.htm

This is nice and helpful

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Issues Advisor
Office of the Prime Minister
613-795-7803

Begin forwarded message:

From: "Halucha, Paul" <Paul.Halucha@pco-bcp.gc.ca>
To: "Holland, Alyx" <alyx.holland@pmo-cpm.gc.ca>, "Sambasivam, Bud" <Bud.Sambasivam@dpmo-cvpm.gc.ca>, "Kim, Sabrina" <Sabrina.Kim@pmo-cpm.gc.ca>
Cc: "Henry, Barbara" <Barbara.Henry@pco-bcp.gc.ca>
Subject: PPE_Status_Update april 7.pptx

FYI



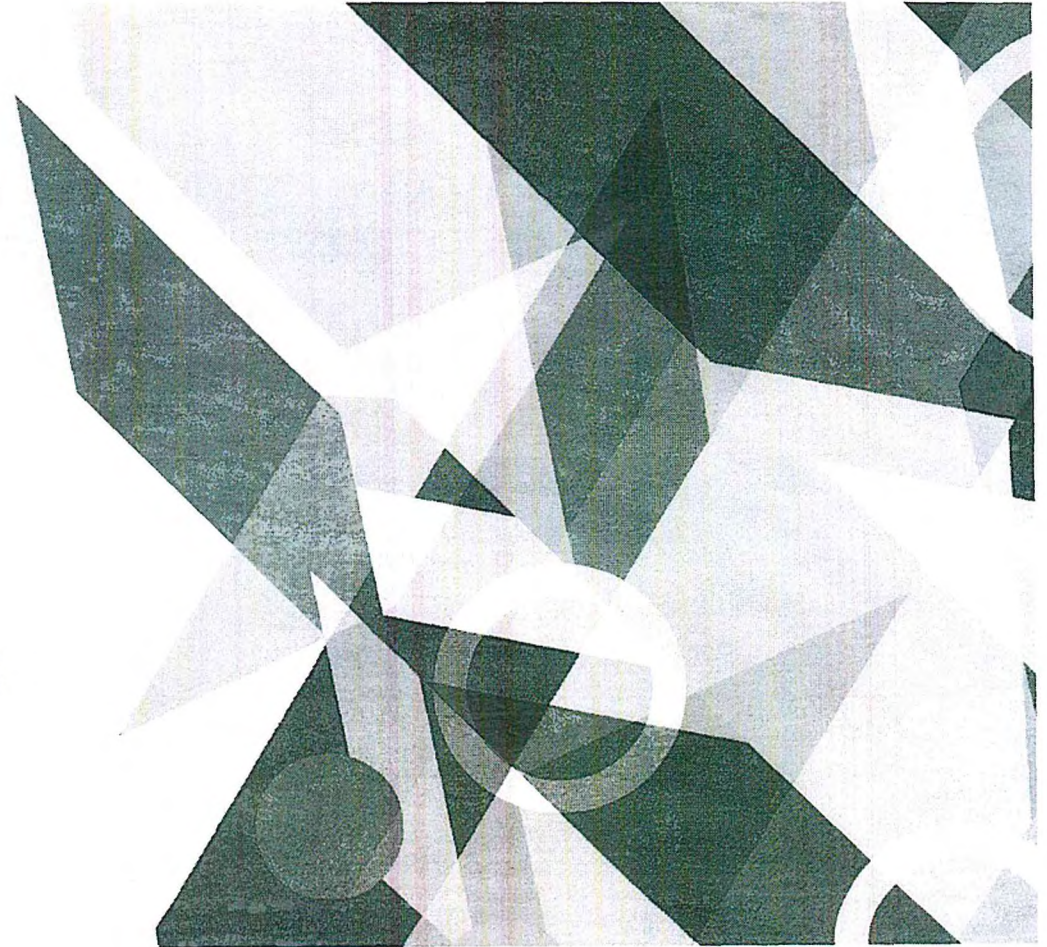
Innovation, Science and
Economic Development Canada

Innovation, Sciences et
Développement économique Canada

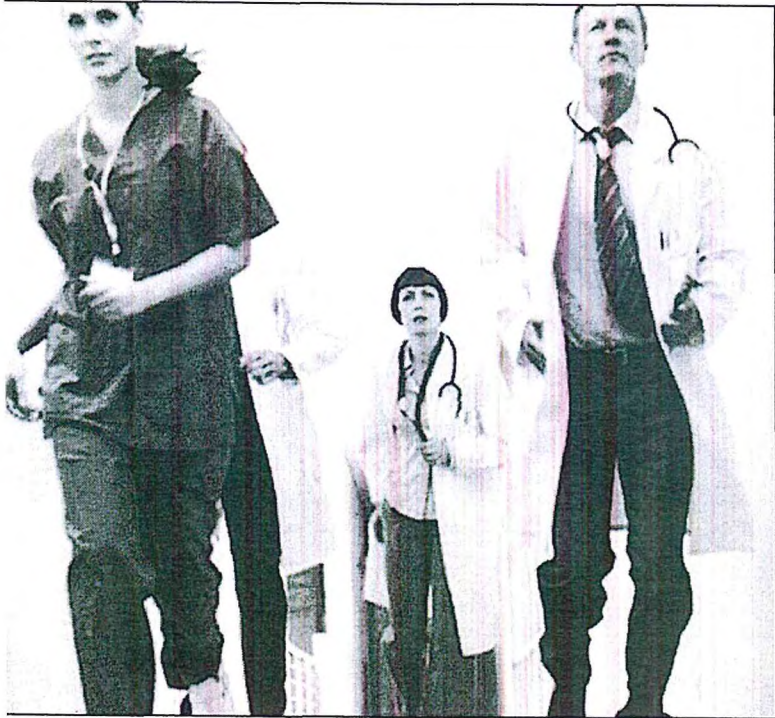
Canada

COVID-19 Status Update

Personal Protective Equipment:
Building Domestic Capacity
Through Industrial Engagement



The response

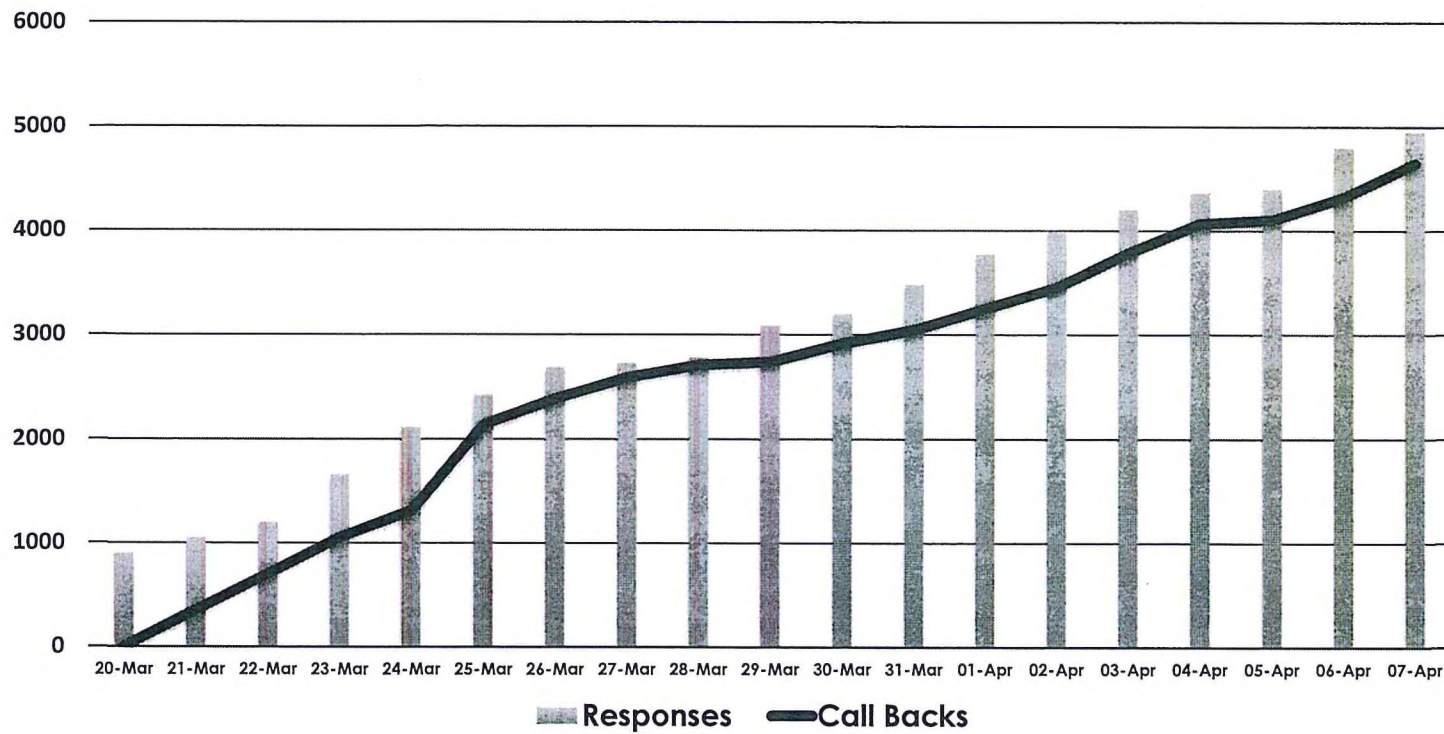



In response to our call-to-action, the Government of Canada has so far received nearly 5,000 offers from industry

- Key areas of need are the focus;
 - Masks, ventilators, testing kits, gowns, face shields, sanitization
- Offers are managed using a triage system through a web-based CRM system; and,
- All companies are contacted with high potential leads in key areas identified for referral

Immediately viable products and services, are fast tracked to expedite the procurement, testing & assessment processes

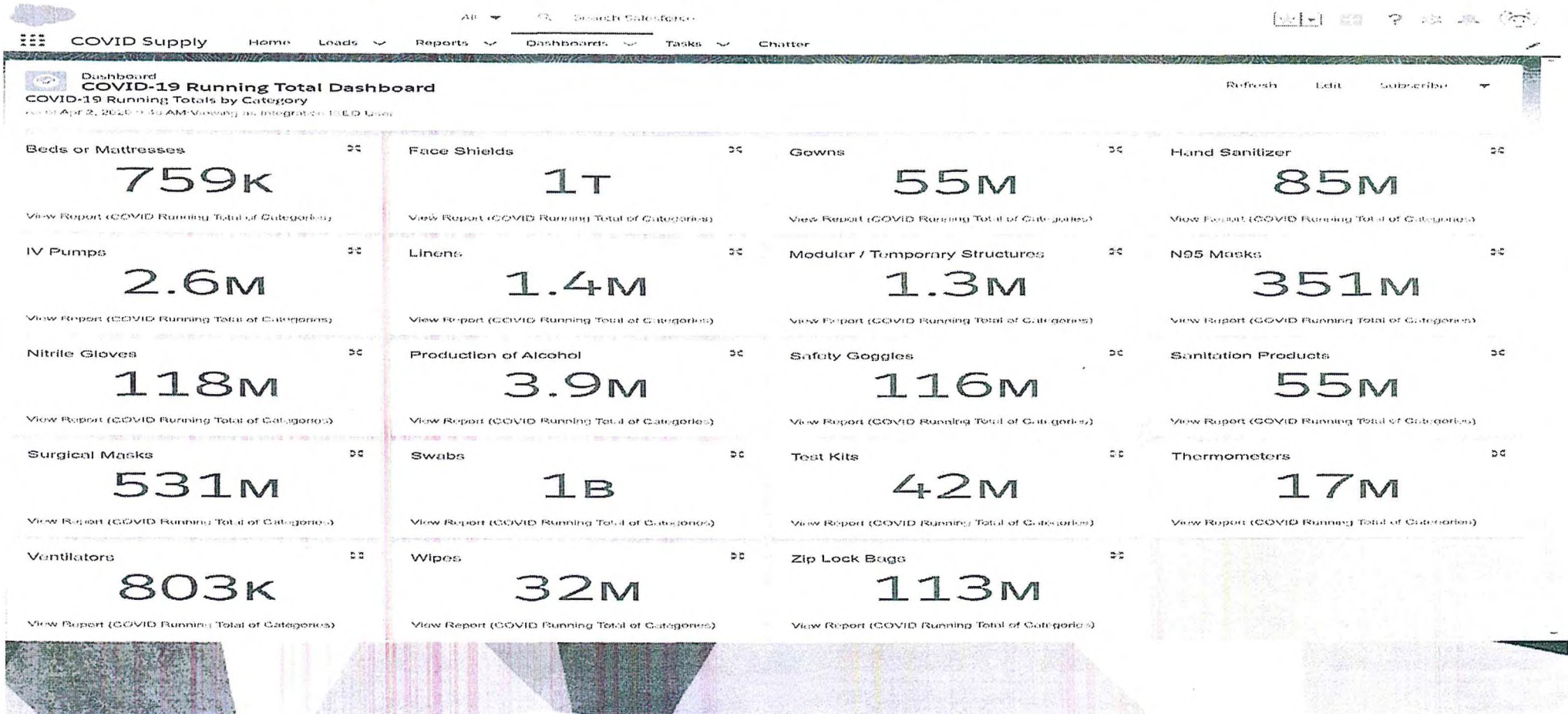
Answering the call – statistics as at April 7, 2020




Responses
Via ISED Portal

 4646
Call Backs

Leveraging Cloud-based CRM System



The results so far



Domestic Capacity

New capacity identified and coming online, with more to come soon



Innovative Solutions

Innovative approaches and supply chains are being established



Partnerships

Capacity issues being addressed through new industrial partnerships



Made in Canada

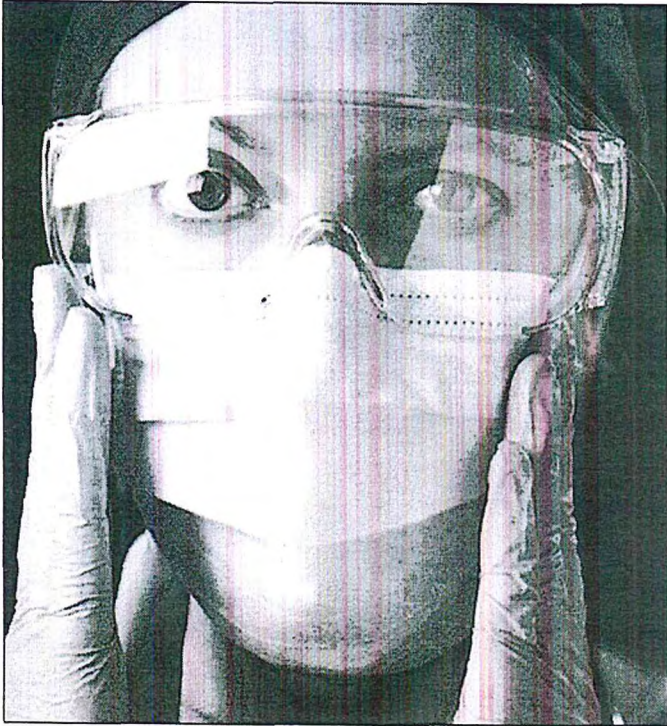
Canadian businesses are retooling to meet emergency needs



Investing in the Long-Term

Investments to secure Canada's long-term strategic capacity

Surgical/N95 Masks



Retooling to meet immediate needs

- Woodbridge – auto parts company leveraging expertise in material science and manufacturing to produce masks. Surgical mask in final lab tests to meet certification requirements. **Estimated capacity of 4 million masks a week** by end of April

Creating immediate domestic capacity

- Medicom – establishing a new manufacturing facility in Montreal where they **will produce 44 million masks per year** (both surgical and N95) beginning this summer. A 10-year procurement agreement will provide Canada with long-term domestic capacity. A SIF agreement will enable vertical integration and enhance manufacturing competitiveness

Ventilators



Immediate acquisition of ventilators

- Thornhill – Existing Canadian ventilator company. Partnering with auto parts company, Linamar, to ramp up manufacturing capacity. **Initial purchase of more than 1,000 units with an option for 900 additional units**

Creating new domestic capacity

Established a panel that quickly identified Canadian companies able to manufacture large volumes (10,000 units or more) of certified ventilators by May:

- Starfish Medical - NGEN supercluster-led coalition, **committed to producing 10,000 units** through an existing design
- Ventilators for Canadians - Coalition of Ontario/Quebec manufacturers, **committed to producing 10,000 units** through the licensing of an existing design
- CAE – Aerospace manufacturing company, **committed to producing 10,000 units** using its own design

Ventilator details

Consortium / Lead	Partner(s)	Order Amount	Date of LOI	Date Announced	Expected Delivery
Starfish Medical	- NGEN (as funder) - Linamar	10,000	April 3, 2020	April 7, 2020	10-50 units in April 3,500/month by June 10,000 by September
Ventilators 4 Canadians	- ABS Friction (lead) - Baylis Medical - Danby - Crystal Fountains - JMP Solutions	10,000	April 3, 2020	April 7, 2020	875 units in May 3,125/month by August 10,000 by September
CAE	- N/A	10,000	April 3, 2020	April 7, 2020	100 units in April 3,500/month by June 10,000 by August

Medical Gowns



Address lack of domestic supply for fabric

Global supply of material traditionally used for fabricating medical gowns scarce. Supply chains slow to recover in Asia. Strategy focusing on identifying alternative textiles:

- Intertape Polymer – Industrial house wrap company from Truro, NS. Material meets requirements for Level 1, 2, and 3 medical gowns. **Can produce at scale for millions of gowns**
- AutoLiv – Company manufactures vehicle air bags in Tilbury, ON using nylon from Invista in Kingston, ON. Material meets requirements for Level 1 and 2 medical gowns. **Can produce at scale for millions of gowns**

Mobilize apparel makers to produce gowns

- **More than 20 apparel firms** bringing workers back to make millions of medical gowns using these alternative fabrics

Apparel companies making gowns



STANFIELD'S

CANADA GOOSE



ARC'TERYX

LOGISTIK UNISYNC



Joseph Ribkoff

George Courey



SAMUELSON

C&O APPAREL



FELLFAB



Second Denim

Peerless/Unisync

Mustang Apparel

Triplewell

Ancin



Hand Sanitizer



Creating immediate domestic capacity

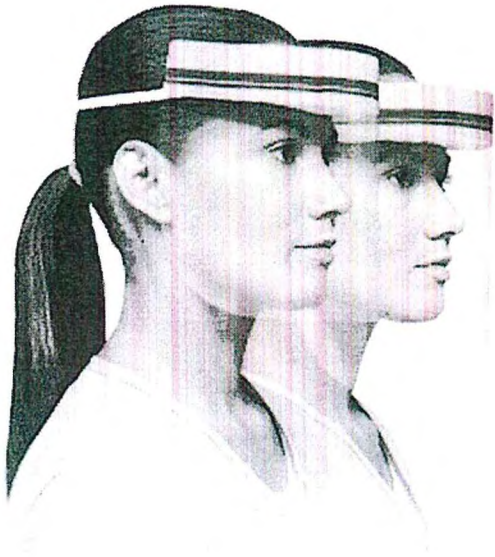
- Irving Oil – Retooled facilities and has **capacity to produce 4,000L of sanitizer/day**
- Fluid Energy – Has **capacity to produce 100,000L of sanitizer/day**. PSPC purchase order for **10 million litres**

Establishing new industrial partnerships

Canada has sufficient capacity to produce sanitizer, issues relate to the availability and accessibility of key materials

- Husky, Suncor, & Greenfield – Working to improve the purity of their ethanol to meet pharmaceutical standards
- The Hand Sanitizer Exchange - A recently launched industry-led initiative which matches suppliers of raw materials such as ethanol and isopropyl alcohol (including distillers) to manufacturers

Face Shields



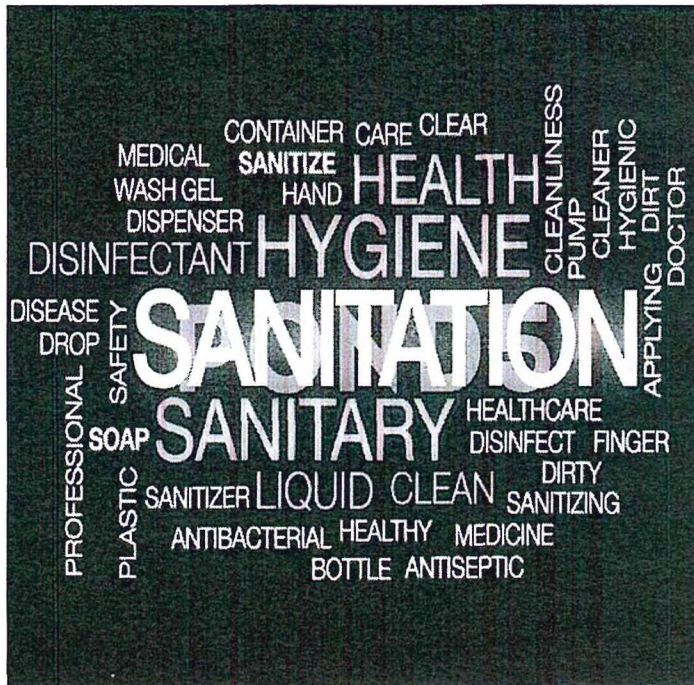
Investments in new capacity

- NGEN Supercluster – announced more than \$1 million to support the development of 3D printed face shields, scalable across industry and academia

Retooling to meet immediate needs

- Bauer - redirecting efforts to produce hundreds of thousands of face shields
- Automotive Industry – established a template design that is being leveraged by multiple companies, including Magna, Ford, and Mitchell Plastics

Sanitization of masks



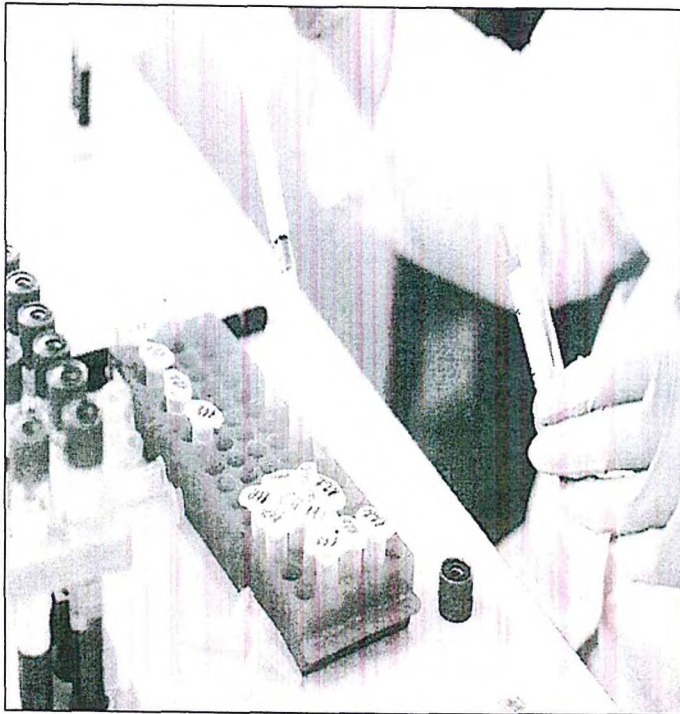
Leveraging domestic capacity in new ways

- Nordion – Off-site industrial-scale facilities, in Mississauga and Montreal, with **capacity for high volume** of sterilization of medical equipment. Pilot in Ontario to sterilize masks on an industrial scale for re-use

Identifying additional sources of supply

- Strykers – mobile, on-site units, capacity to sterilize **400 masks/day**, ideal for small centres – 54 units available, many ready for deployment now
- Cleanworks – on-site units, capacity to sterilize **1,000 masks/day**, ideal for medium/regional hospitals – 50 units available, some currently being deployed (Perley-Rideau in Ontario)
- Magna – mobile, on-site units, capacity to sterilize **1,000 masks/day**, ideal for small centres. Current supply being placed now, with additional production available in three weeks

Testing Kits and Reagents



Immediate acquisition of testing kits

- Spartan – Purchase order for 100 test cubes, providing **testing for up to 1 million Canadians**. NRC-IRAP support to accelerate testing for certification and BDC support to ramp-up production

Identifying additional sources of supply

- Precision Biomonitoring - Guelph-based company completing certification for a point-of-care test kit and domestic **capacity to produce 3000 COVID 19 test kits/week**
- GL Chemtec – Oakville specialty chemicals company producing domestic supply of Guanidine Thiocyanate (GITC), needed to produce reagents for diagnostic tests. **Opportunity to scale**
- Sona Nanotech – Halifax-based company received \$4 million from NGEN Supercluster toward the development of a rapid test kit



More to Come