

The logo features the text "Flatten the Curve" in a large, bold, purple font, with "HANDMADE MASKS" in a smaller, blue, all-caps font below it. The text is centered within a decorative graphic of overlapping, dotted lines in purple and blue, forming a shape reminiscent of a flattened curve or a stylized mask.

**Flatten the Curve**  
**HANDMADE MASKS**

**COVID-19**  
**FTC Mask Project**

April 21, 2020

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DISCLAIMER: The information provided in our materials is based on what is publicly available at the time when they were prepared. As new information becomes available with respect to the COVID-19 pandemic and best practices to reduce the spread, our materials may no longer be current. April 14, 2020

## Project Overview

The severe spread of the Coronavirus disease (COVID-19) pandemic has created a global surge in demand for personal protective equipment (PPE), with emphasis on surgical masks and N95 respirators. In response to the limited supply of PPE a group of volunteers, healthcare professionals and industry experts created a project team with the intention to manufacture homemade face coverings for community members in need. The team has selected " Flatten the Curve Handmade Masks" (FTC Masks) as their project title.

## Project Goal

### Phase One (Pilot)

To increase the availability of homemade cloth face masks to at-risk individuals<sup>1</sup>, medical clinics, hospices, and home support agencies in Vancouver by manufacturing and distributing two thousand (2,000) masks by May 15, 2020. We anticipate recruiting fifty (50) sewing volunteers for this project.

### Phase Two

Once phase one of the pilot has been evaluated, consideration will be given to expanding the program to Metro Vancouver.

### Phase Three

Support the roll out and replication of the project to other communities across British Columbia.

## Background

Given the challenges in maintaining PPE supply during the COVID-19 pandemic, the use of homemade and/or cloth masks in public is a topic of much discussion. The Public Health Agency of Canada (PHAC) has released a statement that Canadians are recommended to use non-medical masks in tandem with physical distancing, hand hygiene, and other measures to limit the transmission of COVID-19<sup>2</sup> In addition, the [Centres for Disease Control and Prevention \(CDC\)](#) has specified that wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain (e.g., grocery stores and pharmacies) especially in areas of significant community-based transmission.

CDC also advises the use of simple cloth face coverings to slow the spread of the virus and help people who may have the virus and do not know it from transmitting it to others. Cloth face coverings fashioned from household items or made at home from common materials at low cost can be used as an additional, voluntary public health measure.

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<sup>1</sup> Individuals with immunosuppression and comorbidities, such as COPD, heart disease, diabetes, organ failure, or cancer.

<sup>2</sup> Centers for Disease Control and Prevention. Coronavirus disease 2019 (COVID-19): recommendations for cloth face covers.

## Supporting Data

Recent studies<sup>3</sup> indicate that a significant portion of individuals with coronavirus lack symptoms (“asymptomatic”) and that even those who eventually develop symptoms (“pre-symptomatic”) can transmit the virus to others before showing symptoms. This means that the virus can spread between people interacting in close proximity—for example, speaking, coughing, or sneezing—even if those people are not exhibiting symptoms. In light of this new evidence, CDC recommends wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain (e.g., grocery stores and pharmacies) and especially in areas of significant community-based transmission.

## Scope

### Phase One

The following target audiences are in scope for this project:

1. Individuals with chronic conditions<sup>4</sup> living in Vancouver
2. Home support agencies in Vancouver
3. Community hospices
4. Medical clinics in Vancouver

## Assumptions

1. There is variability in the effectiveness of cotton masks and that they are generally inferior to medical-grade masks.
2. Homemade masks do not meet the criteria of medical-grade Personal Protection Equipment (PPE) masks but the widespread use of these devices, has been shown to make a significant contribution to flattening the curve
3. Homemade masks will reduce the transmission of COVID-19 by asymptomatic individuals with the reduction being potentially significant
4. During the coronavirus pandemic, there is an urgency to address the need for manufacturing homemade masks due to shortages of PPE

## Guiding Principles

1. Within the context of the project and the limited research available regarding homemade masks, we will endeavour to operate based on evidence and best practices.
2. We have conducted a review of literature that is available relating to the subject matter
3. While we acknowledge that the general population would benefit from homemade masks, we will target our resources to individuals and caregivers in the community who are at risk

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<sup>3</sup> Tasker JP. Canada’s top doctor says non-medical masks can help stop the spread of COVID-19.

<sup>4</sup> Adults living with chronic conditions such as: COPD, heart disease, diabetes, organ failure, or cancer.

## Desired Outcomes and Deliverables

1. Increase accessibility of homemade cloth masks to at risk individuals, medical clinics, and home support agencies
2. Develop materials and a tool kit that assist volunteers to produce standardized homemade cloth masks
3. Develop instructions for the care and use of the FTC Masks
4. Manufacture and deliver 2,000 homemade cloth masks in Vancouver by May 15, 2020 (Phase 1 Pilot)
5. Reduce the transmission of COVID-19 from asymptomatic individuals

## Metrics

The team will utilize the following metrics to evaluate the effectiveness and success of the project:

1. Number of homemade cloth masks manufactured
2. Number of homemade cloth masks distributed to:
  - at risk individuals
  - medical clinics
  - hospices
  - home support agencies
  - community agencies
3. Number of volunteers

## Risks

The following risks and mitigation strategies to the project have been identified:

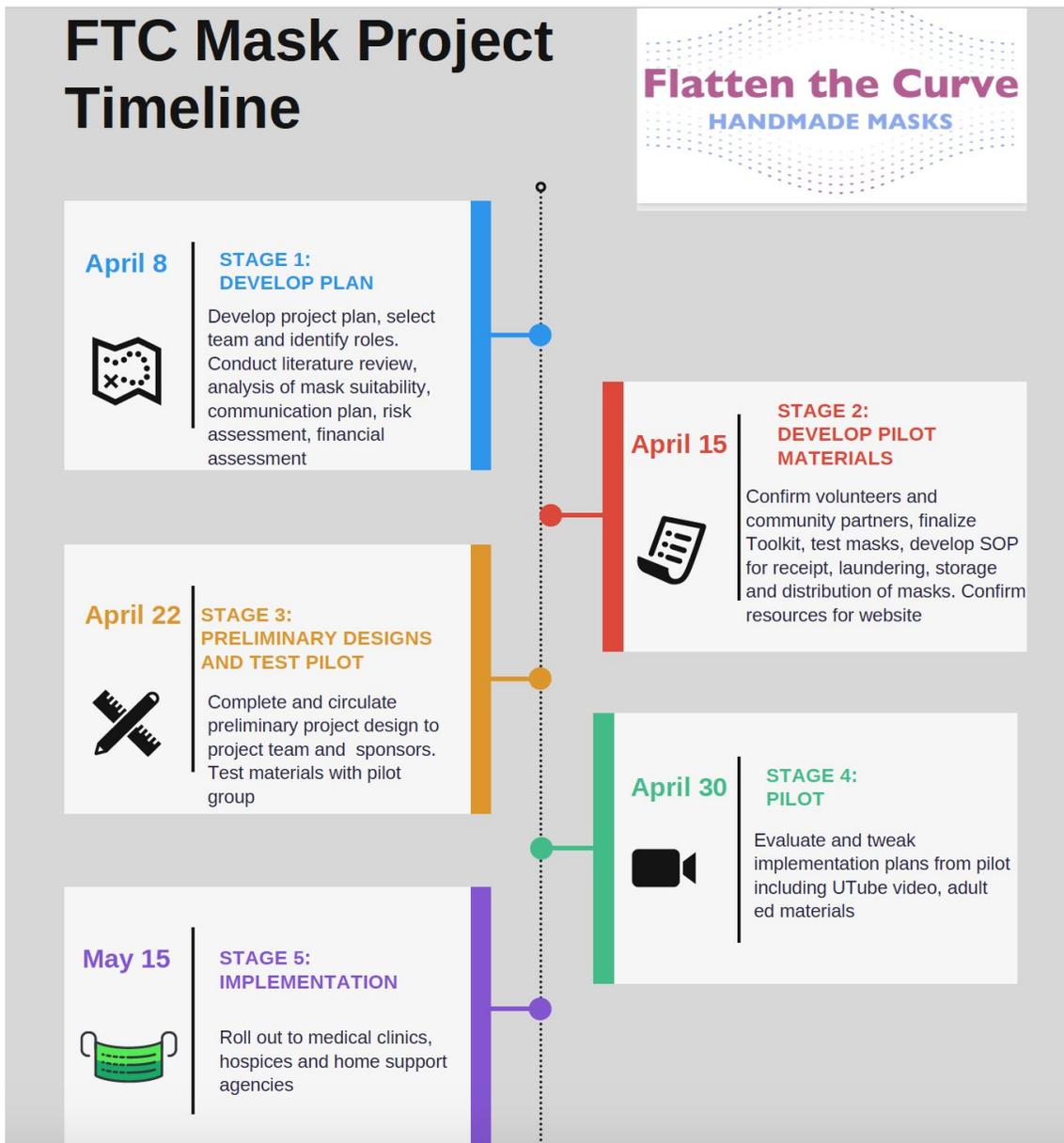
Risk	Impact	Probability	Mitigation Strategy
Speed to market	High	Medium	All hands-on deck
Quality of the mask	Medium	Low	Standardizing education materials and sourcing products
Volunteer resources	High	Medium	Recruit +++ communications plan
Availability of materials	High	High	Speed sourcing products and developing partnerships with clothing manufacturers
Scope creep (demand exceeds our ability to fulfill)	High	Medium	Adhere to project deliverables and deadlines
Competing grass-roots projects	High	Medium	Collaborate/joint ventures

There has been an abundance of grassroots sewing groups that are struggling to find fabrics and elastics to make cloth masks. Availability of these materials are a scarce resource and pose significant risk to the project. The Sewing FTC Mask Team has been putting together a list of resources for volunteers to access materials. As well, we are in early discussions with clothing and fabric companies to assist us in accessing fabric and elastic..

## Principles for Working Together

We value each other's strengths through recognition, encouragement, feedback and accountability. We interact with each other, work and make decisions with integrity. We take pride in and respect each other's diversity and connect through our shared values.

## Phase 1 Pilot: Timeline



## Roles and Responsibilities

### Core Project Team

Role	Accountable
Project Lead	Susan Scott Gabe
Planning	Audrey Ple + Irving Ozier
Research + Best Practices	Susan Scott Gabe + Shauna Butterwick
Mask Designer and Production	Lynne Gray
Communications + Creative Design	Joyce Ozier
Volunteer Coordinator	Anne Rowland
Logistics and Distribution	Myrna Leslie
Adult Education	Shauna Butterwick
Treasurer	Tim Wyman
Website	Teresa Beere Johnson

### Advisory Panel

Role	Accountable
Research and Evaluation	Virginia Flintoft
Manufacturing + Production	Nancy Lord
Medical	David Hunt
Community Outreach	Lulu Leathley

## Sponsors

Company	
<a href="#">Annex Consulting Group</a>	
<a href="#">Cloth Studio</a>	
Creekside Village Connexions	
<a href="#">Daniadown</a>	
<a href="#">Eco-Masks</a>	
<a href="#">Magenta Marketing</a>	
<a href="#">S Gabe + Associates</a>	
<a href="#">The Printing House</a>	

## Community Partners—Pilot

Company	Sector
<a href="#">The Dugout</a>	Community Agency- staff and volunteers
<a href="#">May's Place</a>	Hospice- staff and volunteers
<a href="#">HomeCare Assistance</a>	Home Support Agency- staff and clients
<a href="#">Spectrum Health</a>	Medical Clinic- staff
West 10th Medical Clinic	Medical Clinic Staff

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#### Other Resources

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Video: How To Make a Cloth Mask

[Washington Post](#) Staff (2020 April 05).. How to Sew Your own fabric mask. *Washing Post*. Retrieved from <https://www.washingtonpost.com/health/2020/04/05/how-sew-your-own-fabric-mask/?arc404=true>



COVID-19  
FTC Mask Project  
[Volunteer Training Toolkit](#)

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**APPENDIX B**  
**Mask Options**

**Multi-ply cloth mask**

**Option A: Preferred option with ear loop elastics**



**Option B: Alternative option with headband elastics (only as required for those who cannot wear option A)**



Note:  
Spectrum Health received qty 50 masks, various styles, as a trial. Option A was preferred due to lower opportunity for contamination as well as comfort. 95% of the pilot will manufacture option A and 5% option B.

## APPENDIX C

### Material Requirements

#### Supplied by FTC Masks Project Team

1. FTC Mask Toolkit
  - Overview, Pattern, and sewing Instructions
  - YouTube video instructions
  - Production support
2. Materials if needed\*

#### Supplied by Volunteer Sewer

1. Sewing machine
2. Sewing tools (cutting scissors, pins, iron, etc.)
3. Materials\*

#### FTC Mask Material\* Requirements

Fabric** (outside)	Any new solid colour or patterned fabric: <ul style="list-style-type: none"><li>● 100% cotton fabric (minimum 350 thread count)—preferred or</li><li>● 100% cotton t-shirt material</li></ul>
Fabric** (inside)	Any new colour fabric (a lighter shade preferred): <ul style="list-style-type: none"><li>● 100 % cotton fabric (minimum 350 thread count) 100% cotton—preferred</li><li>● 100% cotton t-shirt material</li></ul>
Fabric** (middle protective layer)	<ul style="list-style-type: none"><li>● 100% new cotton flannelette any colour</li></ul>
Elastic	2 x 7" long pieces per mask any colour: <ul style="list-style-type: none"><li>● 1/4 inch wrapped woven elastic—preferred</li><li>● Other widths may work, please check by emailing <a href="mailto:contact@ftcmasks.org">contact@ftcmasks.org</a></li></ul>
Nose Bridge	6" long piece per mask: <ul style="list-style-type: none"><li>● Pipe cleaners—preferred or</li><li>● Heavy-duty twist tie (plastic coated)</li></ul>
Thread	<ul style="list-style-type: none"><li>● 100% cotton, silk finish—preferred</li><li>● Polyester</li></ul>

\*Materials may be supplied by FTC Masks project team, the volunteer sewer, or a combination of project team and volunteer sewer

\*\*Must be new fabric and not recycled fabric

## APPENDIX D

### Resources

Company	Contact
Dragonfly Quilting	17802 66 Ave, Surrey, BC;+1 800-663-0226
Fabric Fabric	<a href="#">Website</a>
Fabric Time Solutions	1325 East Pender 604-360-0822
Pfaff on Granville	Sabine Bolzner 604 734 7007
Hamels Fabrics & Quilting	<a href="#">Website</a>
Atex Designer Fabrics	<a href="#">Website</a>



COVID-19  
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Care of FTC Masks

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## **APPENDIX F**

### **Glossary of Terms**

#### **Asymptomatic**

When a patient is a carrier of an illness but does not show symptoms. People are thought to be most contagious for COVID-19 when they are most symptomatic, according to the CDC, although researchers are still investigating how its spread might be possible at other times, including during the incubation period (called “pre-symptomatic transmission”) and even after symptoms have resolved.

#### **Community transmission**

In the case of COVID-19, it means that an infected person has not come into known contact with anyone who is infected and that the source of infection is unknown.

#### **CDC**

Centers for Disease Control and Prevention (the U.S.'s health protection agency and a leading reliable source for COVID-19 updates for the U.S.).

#### **COVID 19**

A mild to severe respiratory illness that is caused by a [coronavirus](#) (Severe acute respiratory syndrome coronavirus 2 of the genus Betacoronavirus), is transmitted chiefly by contact with infectious material (such as respiratory droplets), and is characterized especially by fever, cough, and shortness of breath and may progress to pneumonia and respiratory failure.

#### **Droplet transmission**

A form of direct transmission, this is a spray containing large, short-range aerosols (tiny particles suspended in air) produced by sneezing, coughing, or talking. Droplet transmission occurs—in general and for COVID-19—when a person is in close contact with someone who has respiratory symptoms.

#### **Hand hygiene**

A key strategy for slowing the spread for COVID-19. [Washing hands](#) with soap and water for at least 20 seconds is one of the most important steps to take to protect against COVID-19 and many other diseases.

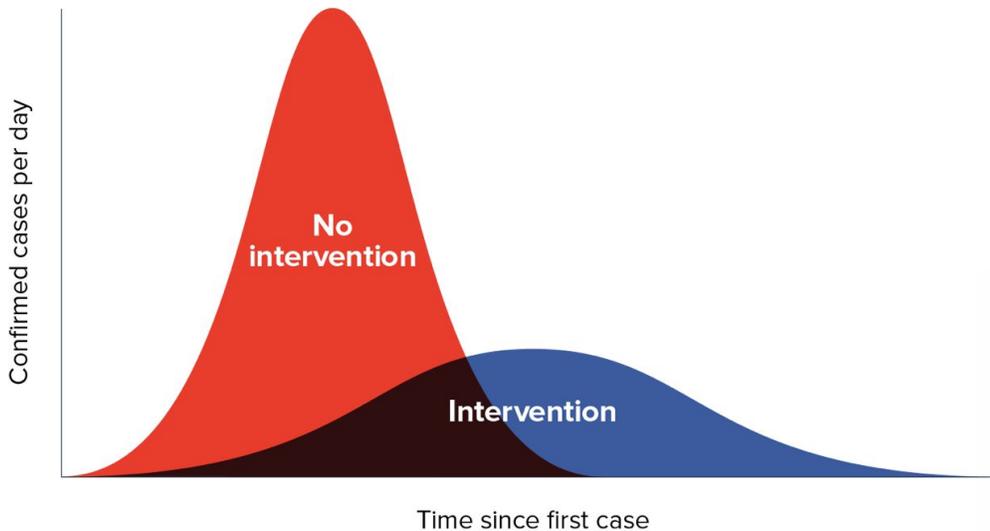
#### **Face mask**

Loose-fitting paper or cloth masks that form a physical barrier between the wearer and other people, with the purpose being to prevent the wearer from spreading germs when they sneeze or cough. They also can remind the wearer not touch their face.

## Flattening the curve

Flattening the curve refers to a graph that illustrates the spread of a disease and the ability of health systems to cope. If a large number of people become infected and require medical care, it can overwhelm the overall health-care system. This can result in shortages of protective equipment, hospital beds or even doctors and nurses.

Without mitigation, social distancing and all the rest, epidemiologists and other health experts predict a sharp increase in COVID-19 cases that looks like a tall, narrow spike on a graph. By following guidelines, the projected model looks shorter and spread out over time. The curve is flatter, milder, less pronounced. The hope of flattening the curve is to reduce fatalities by buying hospitals time to treat and scientists time to discover therapies and create a vaccine.



## Incubation period

The time between when a person is infected by a virus and when he or she notices symptoms of the disease. Estimates of the incubation period for COVID-19 range from 2-14 days, but doctors and researchers may adjust that as more data becomes available.

## N95 respirator

A respirator that filters out 95% of virus particles. This is the gold standard for healthcare workers and are in short supply now.

## Pandemic

Relates to the geographic spread of a disease. The WHO designated COVID-19 as a pandemic on March 11, citing the spread of the new virus to several countries.

## **PPE**

This is shorthand for personal protective equipment, and for health-care workers on the front line, it includes isolation gowns, foot covers, eye gear, face masks and gloves.

## **Respirator**

For COVID-19 purposes, a respirator is not a machine to help one breathe a type of face mask that doesn't just act as a barrier but also filters out virus particles before they can be inhaled.

## **Social distancing**

Putting physical distance between yourself and other people. This means avoiding groups of people (parties, crowds on sidewalks, lines in a store) and maintaining distance (approximately 6 feet) from others when possible. This is a key strategy for avoiding COVID-19 infection and to flatten the curve.

## **Self-quarantine, self-isolation**

People who largely stay inside their own home, hotel room or other space are said to self-quarantine or self-isolate. For example, many governments are asking travelers returning from afflicted areas to self-quarantine for two weeks. However, there's a technical difference. Quarantine refers to people who appear healthy, but could be at risk for exposure or infection. Isolation refers to separating positive or presumptive cases (see above) from the healthy population.

## **Quarantine**

The separation of someone who has been diagnosed with an illness, has symptoms of the illness, or has reason to believe they were exposed to the illness, from other people. The duration of a quarantine is guided by the incubation period for the particular illness. Quarantine can be imposed on a person or self-administered.

## **WHO**

The World Health Organization, which is an agency of the United Nations responsible for international public health.