A comprehensive approach to mass scale COVID-19 testing that will allow Colorado to safely reopen its economy and aggressively trace the spread of the virus while putting Coloradans back to work and restoring their sense of trust and safety in public spaces.

May 21, 2020
Gary Community Investments
Colorado must rapidly expand testing

451,000
Number of Coloradans who have filed for unemployment since COVID-19.

66%
Percent of Americans who don’t feel safe returning to work without widespread testing, according to polling.

Colorado is only testing 3,000-5,000 per day...

...and needs a massive contact tracing system to slow or prevent future outbreaks.
A Vision for Colorado

**Goal**
Get Coloradans **safely back to work** and establish Colorado as the **nationwide leader** of safe, equitable, and deliberate coronavirus containment and economic rebirth.

**Strategy**
Stand up one affordable **statewide testing system** that...

- allows everyone access to accurate, rapid turnaround testing that gives people information they need to return to work or play.
- manages appointments, test results and reimbursement for health providers and patients
- links data into a comprehensive contact tracing system to stem the spread of the virus.
- ensures comprehensive aggregation of data that enables the state and LPHAs to take on the virus statewide.
Success Story: South Korea

South Korea rapidly ramped up testing for symptomatic and asymptomatic populations and tied results from that testing into an aggressive contact tracing regime.

They flattened the curve with testing, tracing and supported isolation without going into nationwide lockdown.
An approach endorsed by national experts

“Testing programs [should] use both PCR tests … and serological tests to identify the presence of antibodies to the virus in a patient.”

“Every region of the country should aim for test and trace infrastructure … capacity to conduct widespread serologic testing [and] … the capacity to isolate new cases and trace, test, and quarantine contacts rapidly.”

“Widespread testing is the most viable option that’s optimal for both the economy and our public health.”

“Communities...need: (1) ready access to rapid diagnostic tests (2) widespread serological testing and (3) the ability to trace all contacts of reported cases.”

“Until there’s a vaccine, a comprehensive package of measures is our most effective set of tools against the virus”
How does a worker safely return to work?

**Available Childcare**
Childcare center has regular testing for kids/staff and distancing protocol is in place.

**Personal Health**
S/he needs to be regularly tested.

**Safe Transit**
RTD driver needs to be tested; social distancing and deep cleans necessary on RTD vehicles.

**Safe Workplace**
Fellow workers and customers need to be regularly tested, and distancing protocol is in place.
## Getting back to business

<table>
<thead>
<tr>
<th>The Business</th>
<th>Back to Work Colorado</th>
<th>The State of Colorado</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Pays $30 per test per employee.</td>
<td>• Provides <a href="#">online portal</a> for employers to authorize tests and track results.</td>
<td>• Provides personal protective equipment (PPE) for clinics.</td>
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<tr>
<td>• Renews confidence that workplace is as safe as possible.</td>
<td>• Coordinates with clinics and labs for <a href="#">timely test</a> processing.</td>
<td>• Determines guidelines for workplace and school safety based on progress.</td>
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<tr>
<td>• Provides new <strong>testing benefit</strong> for employees, including <strong>peace of mind</strong> around returning to the workplace.</td>
<td>• Tests <a href="#">childcare</a> providers to ensure options for parents.</td>
<td>• Manages <strong>contact tracing</strong> and quarantine support system.</td>
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<tr>
<td>• Uses <a href="#">marketing</a> message of safety to re-attract customers.</td>
<td>• Issue safety designation to participating businesses.</td>
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1. Business enrolls with Back to Work CO program.
2. All employees can be tested weekly at nearby clinics and receive their results.
3. Those who test negative allowed to return to work while observing social distancing.
4. Positive tests anonymously trigger site cleaning and contact tracing protocols.

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*Every employee can be re-tested weekly.*
Testing will be available to asymptomatic patients at low cost

Serology Test
*a.k.a. Antibody Test*
- Tests whether patient previously contracted the virus.
- Back to Work CO provides tests at below-market price ($30 vs. $130).
- Point of care test.

PCR Test
*“Do you have the virus now?”*
- Paired with serology test to max accuracy and prevent spread.
- Testing cost is covered by employee insurance.

Symptomatic patients

Positive serology test
- Symptom monitoring & social distancing
- Data to CDPHE
- Contact tracing
- Exposure alert system (optional, anonymous)
<table>
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<th>Peace of Mind</th>
<th>Benefits</th>
<th>Marketing</th>
<th>Revenue</th>
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<tr>
<td>Rebuilding a sense of trust and safety among employees and customers addresses one of the main barriers to re-opening the economy.</td>
<td>Employees are interested in testing for both professional and personal reasons. Companies can fill this need at no cost to the employee</td>
<td>Enrollment in the program can be marketed to prospective customers to signal safety and social responsibility.</td>
<td>Returning to some version of normalcy means a business can re-hire workers and tap into legacy sources of revenue, net of the low cost of tests.</td>
</tr>
</tbody>
</table>
The Big Picture

- Reopen your business and get your employees back to work.
- Restore Colorado’s economy safely well before a vaccine is approved.
- Ensure childcare is available and safe for families who need it.
- Build a model for states to use as they continue opening their economies.
- Minimize and prepare for a resurgence of the outbreak during 2020’s flu season.

The Big Picture
A coalition of funders **purchases tests and delivers them to clinics** across Colorado to test both symptomatic and asymptomatic patients. GCI partners with business, non-profits, schools serving disadvantaged populations to refer them for testing.

Schedule tests, **collect and transfer test results**, coordinate medical billing and reimbursement, provide tele-health support when needed, communicate positive results to CDPHE, exposure alert system and employers when opt in granted.

**Administer affordable, rapid return serology tests** to a broad swathe of Coloradans to understand prevalence and screen for individual positive cases. Refer any positive test result for follow up PCR test at the same facility to ensure accurate results.

Connect all positive cases to Local Public Health Authorities and the contact tracing team, which **tracks and tests any person who has been exposed** and provides tele-health support to slow any spread of the virus.
Success through Partnerships and Collaboration

- **Confirmed**
  - SOURCE
  - DATA
  - TRACE

- **In Progress**
  - Clayton MyVILLAGE
  - verily

- **Prospective**
  - Help Colorado Now
  - My Village
  - SocialSmart

COVID-19
Ensuring access to childcare

1. Childcare provider enrolls with Back to Work CO.
2. Caretakers and children can be tested weekly at nearby clinics and receive results.
3. Those who test negative allowed to attend childcare while observing social distancing.
4. Positive tests anonymously trigger site cleaning and contact tracing protocols.

Every adult and child can be re-tested weekly.

1 Back to Work Colorado testing will be provided to childcare networks at no cost.
Detailed flow chart

Symptomatic
- High-risk: 65+, non-referred contact, nurses, elder care, frontline
- city mobile labs
- rite aid
- walmussen
- fqhcs
- clinics

Asymptomatic: Schools, camps, workplaces, private pay

INITIAL TEST: Serology or PCR

OPT IN
Seroprevalence study + Exposure alert

PCR
- Social distance + monitor symptoms

Serology
- IgM - IgG
- IgM + IgG
- IgG - IgM
- IgG + IgM

Refer for PCR

CDPHE Data

SOURCE
DATA
TEST
TRACE
Central Infrastructure: Testing, Scheduling, Billing, Reporting

**Symptomatic**
- Connect to telehealth (if prescription needed)
- Schedule PCR
- Reimbursement by Insurance
- Tests to labs
- Results to patients
- Data to CDPHE
- AEA + Contact Trace
- Self-Monitor

**High-Risk**
- Connect to telehealth for prescription
- Schedule PCR
- Structure payment
- Positive result
- Data to CDPHE
- AEA + Contact Trace
- Data to Employer
- Self-Monitor
- Negative result
- Schedule PCR
- Self-monitor symptoms

**Asymptomatic**
- Schedule Serology test
- Structure payment
- Positive result
- Schedule PCR
- Self-monitor symptoms
- Negative result

**PCR tests are best used as diagnostics because antibody tests will not detect presence of the disease in first 5 days**

*Serology test enables quick early screening and confirms if they have already had the virus and recovered. A PCR test can confirm an active infection*
The lead tracing investigator in the relevant county receives test results and call patients who test positive to gather the names of their contacts over the previous 14 days. A second set of tracers calls those contacts to notify them of their exposure and arrange for nearby testing. Based on the contacts’ testing results, tracers initiate symptom monitoring or quarantine and re-testing.

The state is partnering with Americorps to deliver 1,000 contact tracers to support statewide expansion of contact tracing. The Colorado effort is likely to be largest service-driven contact tracing corps in the country.