

Implementing an Automated COVID-19 Compliance Program

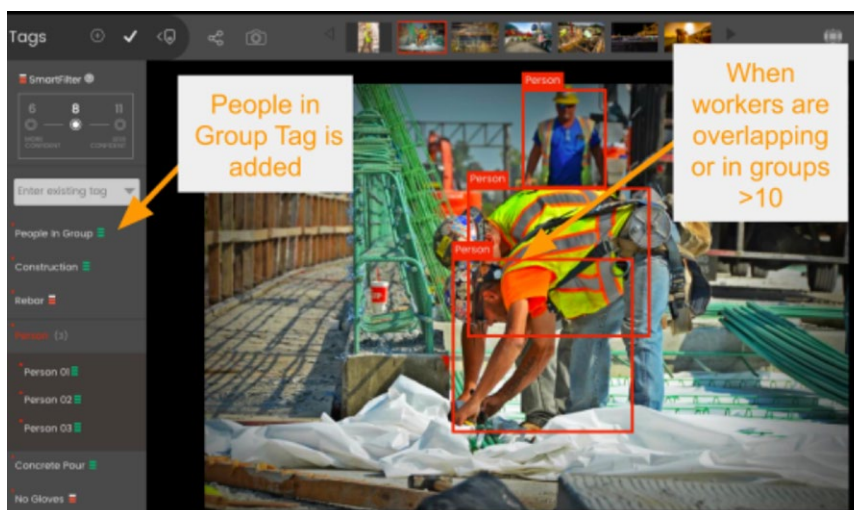
This document explains how to use Newmetrix's platform to implement and document a COVID-19 mitigation program. There are two components to the program:

1. **AI analytics for automated compliance measurement of social distancing, mask wearing, and glove use**
2. **A Mobile Observations application to document your project-level COVID-19 program**

How it works

Newmetrix's **Safety Monitoring and Observations modules** work together to provide a COVID-19 risk reduction and documentation program. **Safety Monitoring** plugs easily into your existing sources of site photos and videos (e.g., Autodesk BIM 360, Procore, Oracle Aconex, Egnyte, Box, site cameras and the Newmetrix mobile app) and automatically analyzes them for indicators of safety risk using "Vinnie," our image-recognition AI.

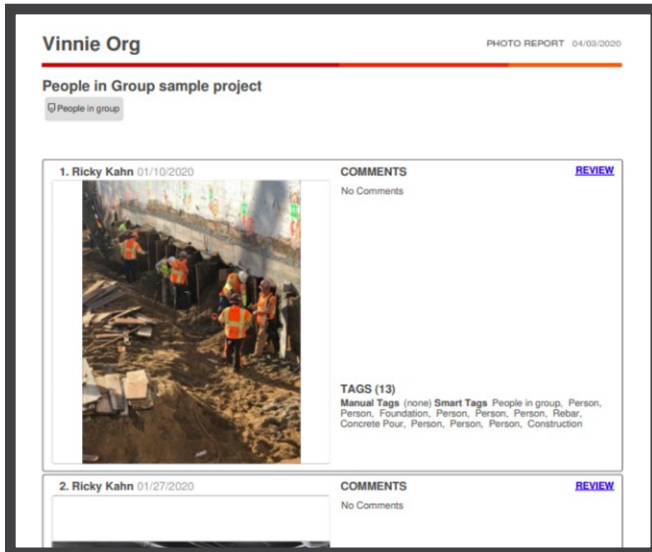
Vinnie acts like a safety inspector who never sleeps, constantly monitoring your projects to identify risks, such as a lack of social distancing or PPE (such as gloves and face masks), and then applies appropriate "tags" to each image. The social distancing tag, called "People in Group," finds all workers in an image and then determines whether they are too close to each other or in a group of more than ten. If so, Vinnie applies a "People in Group" tag to the image, as you can see in the example below. Tagging works similarly for "No Face Mask" and "No Gloves," generating automated compliance data about each of your jobsites.



Example of the "People in Group" tag showing in the Newmetrix web product. Each instance can automatically create a safety observation for follow up and training.

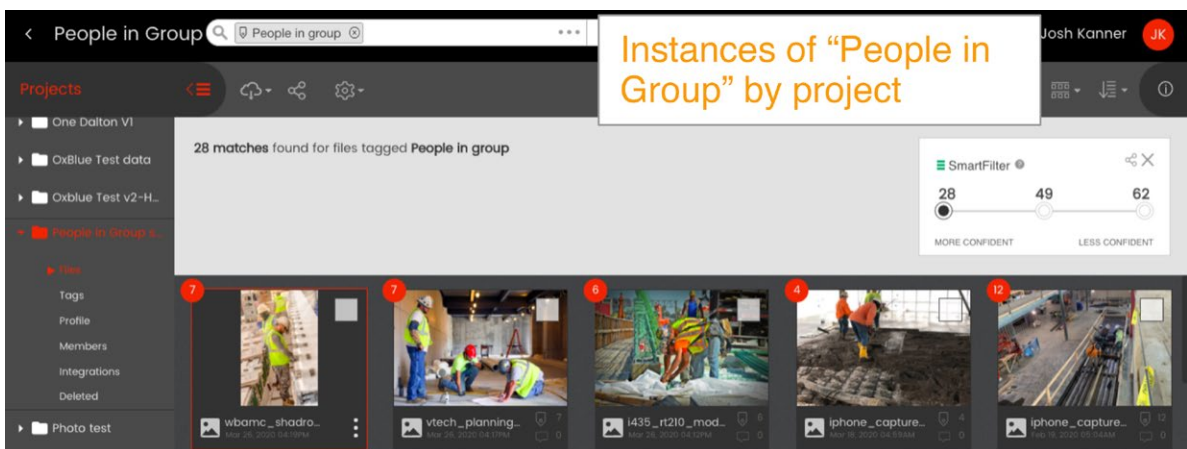
How to use it to drive behavior

Image tagging is just the beginning. The platform provides a customizable workflow to easily summarize all of the Vinnie tags for management and project teams. Newmetrix can send daily Photo Report summaries of all images tagged with the COVID-19 related tags to provide automatic reporting on which jobs may need more reinforcement on COVID-19 behaviors.

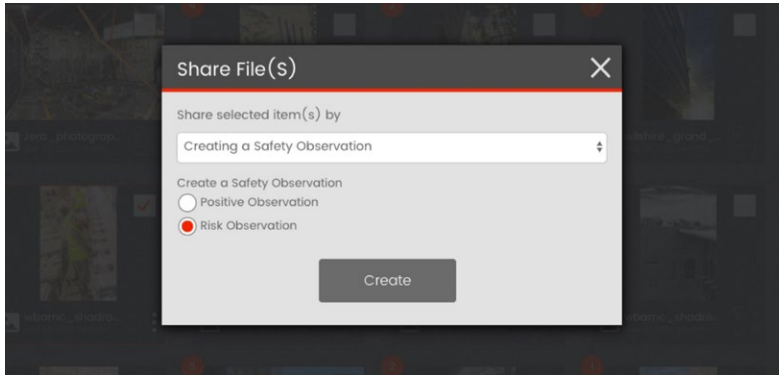


Sample automatic (or on demand) .pdf report identifying People in Group examples.

Need a more up-to-the-minute analysis? Newmetrix provides a “real time view” via a saved search (which can be configured for a single project or across many projects) for today’s data, as shown below. This realtime view can also be accessed via the Newmetrix mobile app for direct viewing and response in the field.

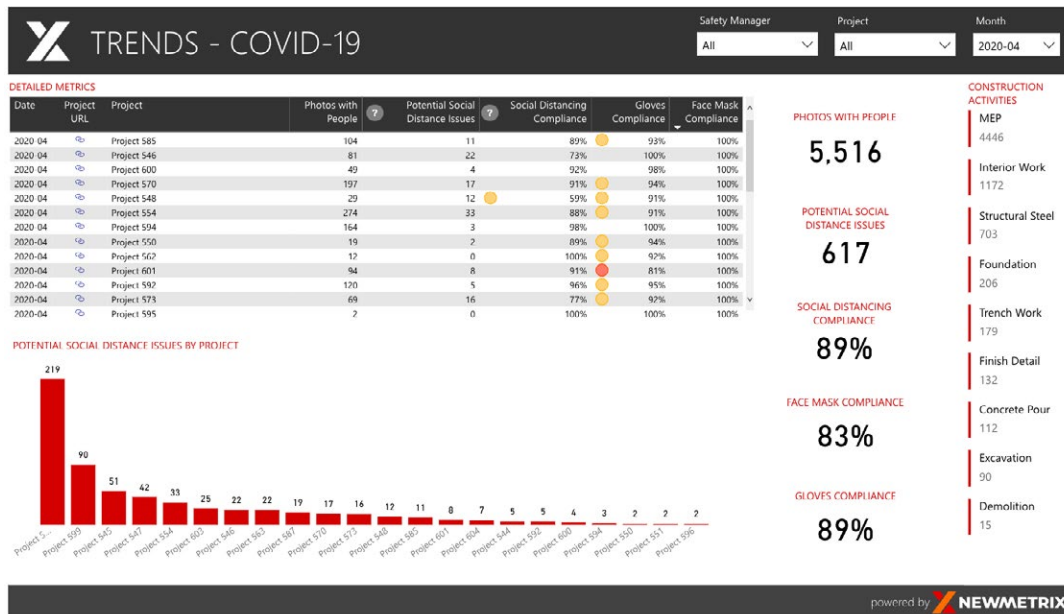


Need real-time notifications? The Newmetrix **Safety Observations** module can be configured so that “real-time” notifications are automatically sent to key parties each time the “People in Group” tag is found. All observations are then tracked and statused in the observations log so that they are never lost and serve as evidence of a proactive COVID-19 mitigation program. Manual observations from personnel on site can be directly created in Autodesk BIM360 or Procore using our integration as shown here.



Any tagged image can be used to create a safety observation in Procore, BIM360, or automatically in Newmetrix's Safety Observations application.

The data tagged by Vinnie can also be displayed across your projects in a Power BI dashboard. This data, automatically updated daily, includes all of the safety tags that Vinnie can identify, not just “People in Group.” The tag data is also available via our API if you would like to include it in your own dashboards or analytics.



Sample Power BI dashboard visualizing cross project data on COVID-19 compliance for trend analysis and identifying projects for additional attention.

What other tags does Vinnie look for?

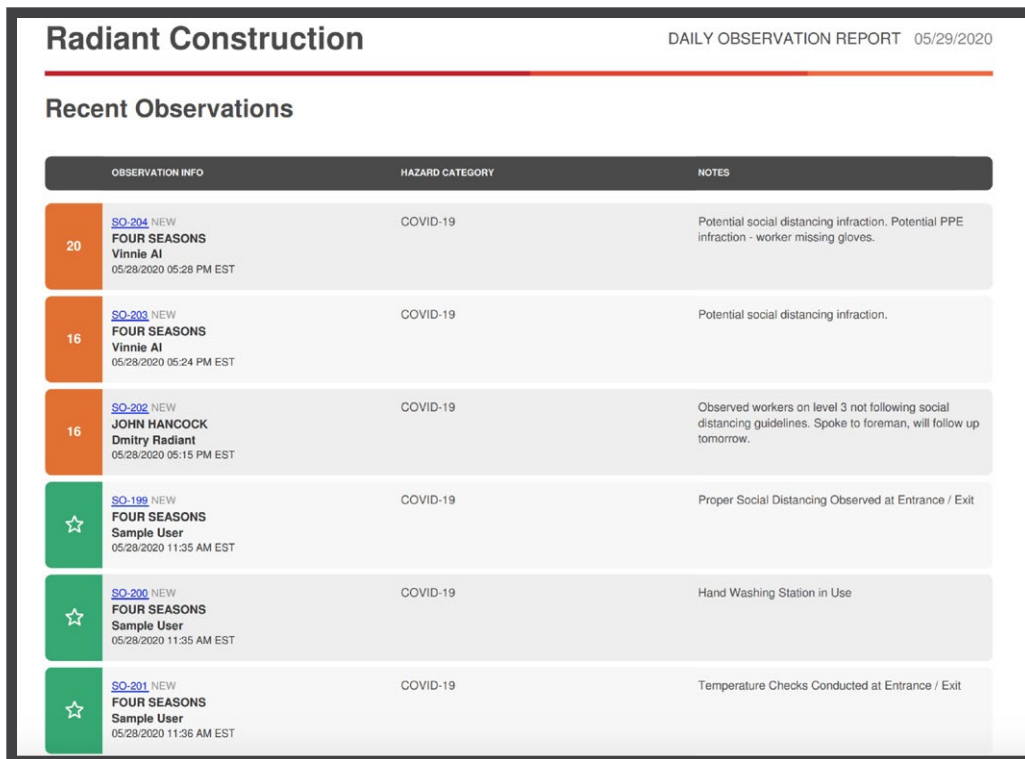
COVID-19 related tags are just a few of many different safety indicators that Vinnie can tag. Others include PPE, workers at height, housekeeping, standing water, phases of construction, and many more.

How can I document all aspects of my COVID-19 program?

In addition to automatic observation creation as mentioned above, field and safety personnel can use the “Positive Observations” section of the mobile Newmetrix Observations application to document the presence of COVID-19 mitigation measures such as handwashing stations, temperature checking and social distancing training on a daily or weekly basis. By logging these “Positive Observations” organizations create a log of all of the correct practices that happen on each site. These observations can be automatically included in a daily or weekly dashboard and/or report, like the one seen below, to document your program, which creates an automatic audit trail of your proper program implementation automatically, saving time for field teams and managers.

How can I try it?

It’s free to start. We want to help you unlock insights from your data in these unprecedented



Radiant Construction		DAILY OBSERVATION REPORT 05/29/2020	
Recent Observations			
OBSERVATION INFO	HAZARD CATEGORY	NOTES	
20 SO-204 NEW FOUR SEASONS Vinnie AI 05/28/2020 05:28 PM EST	COVID-19	Potential social distancing infraction. Potential PPE infraction - worker missing gloves.	
16 SO-203 NEW FOUR SEASONS Vinnie AI 05/28/2020 05:24 PM EST	COVID-19	Potential social distancing infraction.	
16 SO-202 NEW JOHN HANCOCK Dmitry Radiant 05/28/2020 05:15 PM EST	COVID-19	Observed workers on level 3 not following social distancing guidelines. Spoke to foreman, will follow up tomorrow.	
☆ SO-199 NEW FOUR SEASONS Sample User 05/28/2020 11:35 AM EST	COVID-19	Proper Social Distancing Observed at Entrance / Exit	
☆ SO-200 NEW FOUR SEASONS Sample User 05/28/2020 11:35 AM EST	COVID-19	Hand Washing Station in Use	
☆ SO-201 NEW FOUR SEASONS Sample User 05/28/2020 11:36 AM EST	COVID-19	Temperature Checks Conducted at Entrance / Exit	

Sample automatic report summarizing positive observations of COVID-19 program.

times. We're allowing 30 days with an unlimited number of projects, data, users for Safety Monitoring and Observations. Contact us at info@newmetrix.com or visit www.newmetrix.com for more information.

What others are saying:



"You can see at a high level how you're performing with compliance to your rules. We want face coverings on everybody ... it considerably reduces the spread of this virus."



"Without Newmetrix and COVID-19 analytics, your risk of having an outbreak is higher. That's just facts. If you have an outbreak, you get shut down. Newmetrix helps us stay open."



"AI is helping us better understand and proactively manage safety risk across our jobsites."



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Newmetrix enables Predictive-Based Safety, helping companies identify projects at highest risk for an incident and act upon them to prevent incidents from occurring.