

# Canadian Engineering Research Survey COVID-19 (May-June 2020)

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On behalf of Engineering Deans Canada

# Engineering Deans Canada

Engineering Deans Canada is a pan-Canadian organization of a national network of Deans of Faculties of Engineering and Applied Science Higher Education Institutions with accredited undergraduate engineering programs.

# Background

## 1) Google survey

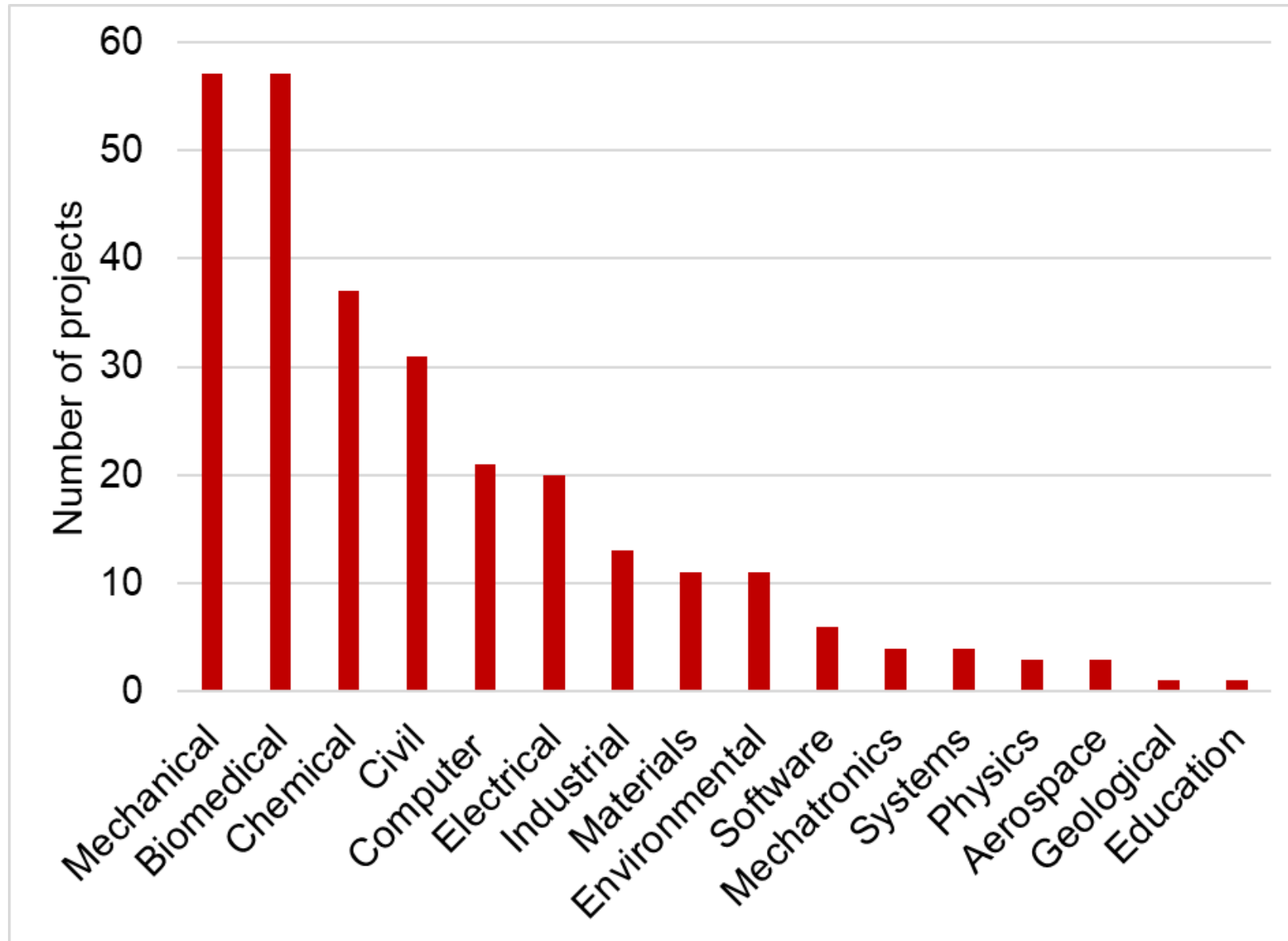
Research underway (or you plan to do) that directly addresses COVID-19 and its mitigation.

## 2) Media scan (COVID-19 engineering research)

# Overall Results

- 273 engineering research projects identified related to COVID-19 (206 survey responses and 67 media stories)
- 35 Universities represented in the data
- 17% of projects led by a female PI and 83% led by a male PI

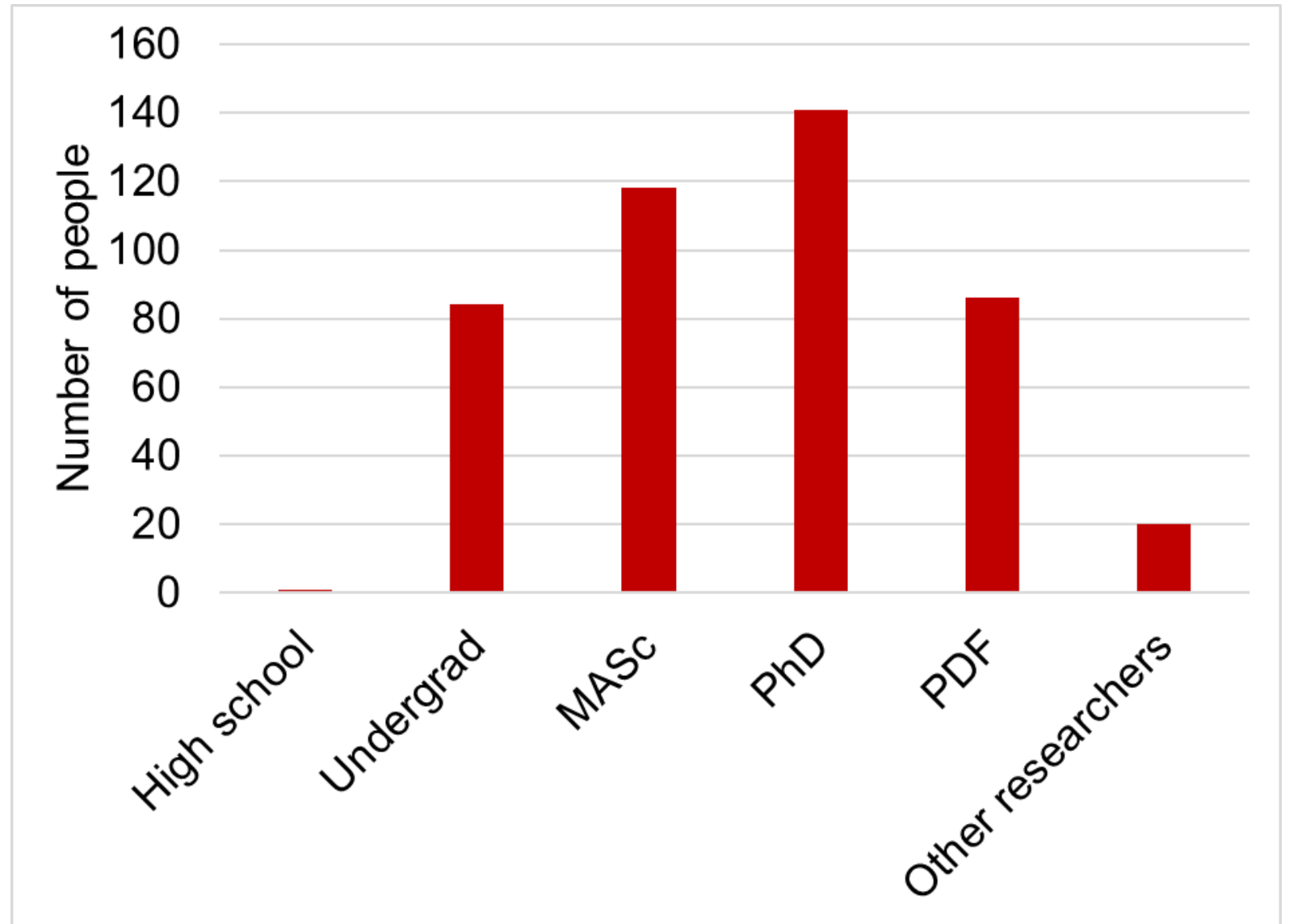
# Overall Results (Engineering Disciplines)



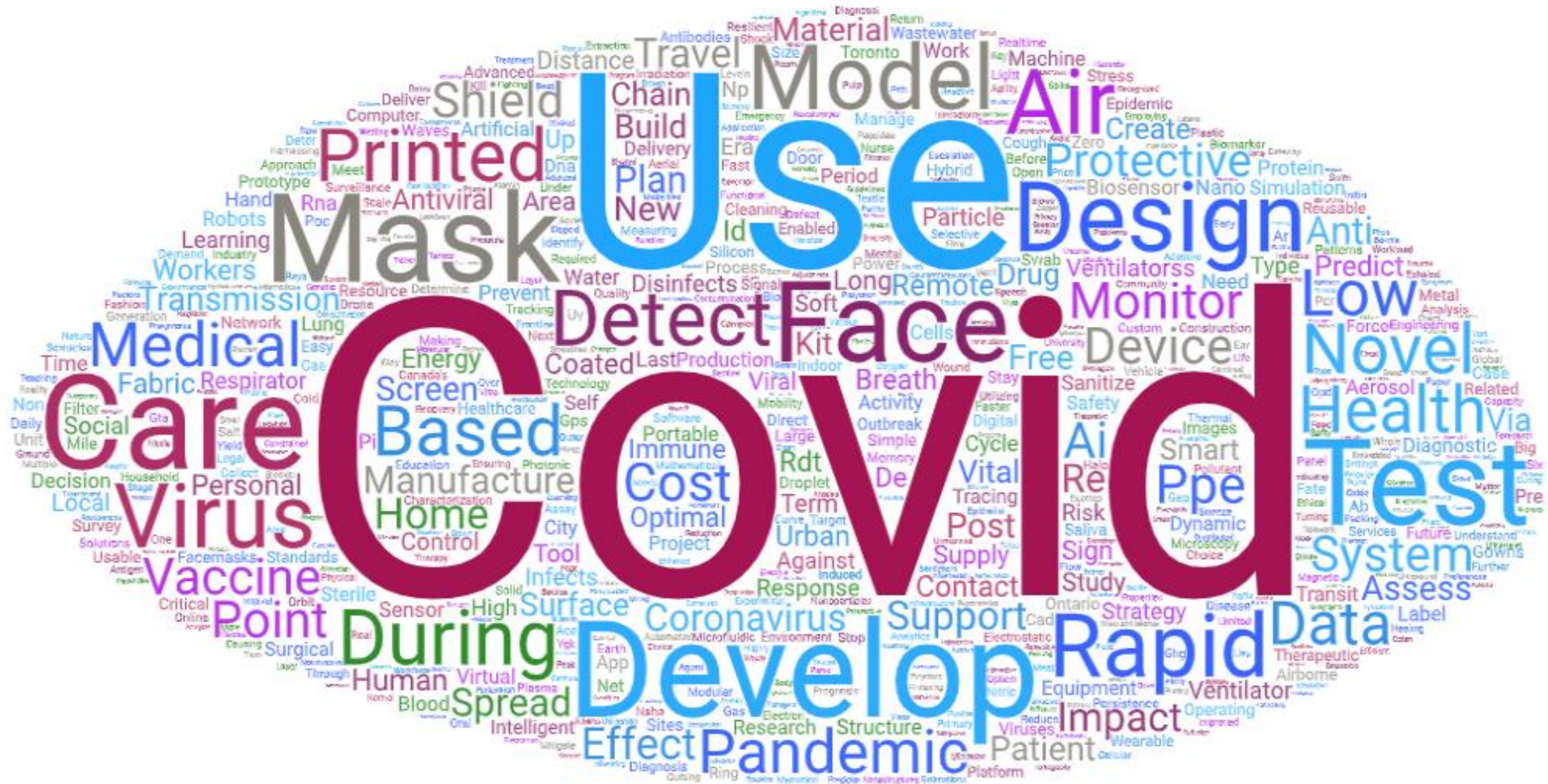
# Overall Results (HQP involved in COVID-19 Research)

Total people = 450  
**Total HQP = 430**

High school = 1  
Undergrad = 84  
MASC = 118  
PhD = 141  
PDF = 86  
Other researchers = 20



# Overall Results (Research Titles)







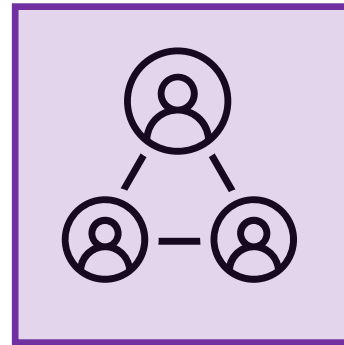
# COVID-19 Engineering Research Areas



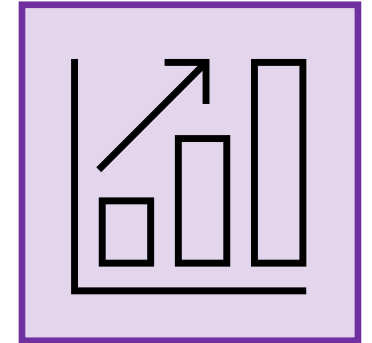
**Testing  
(Diagnostics)**



**Treatment**

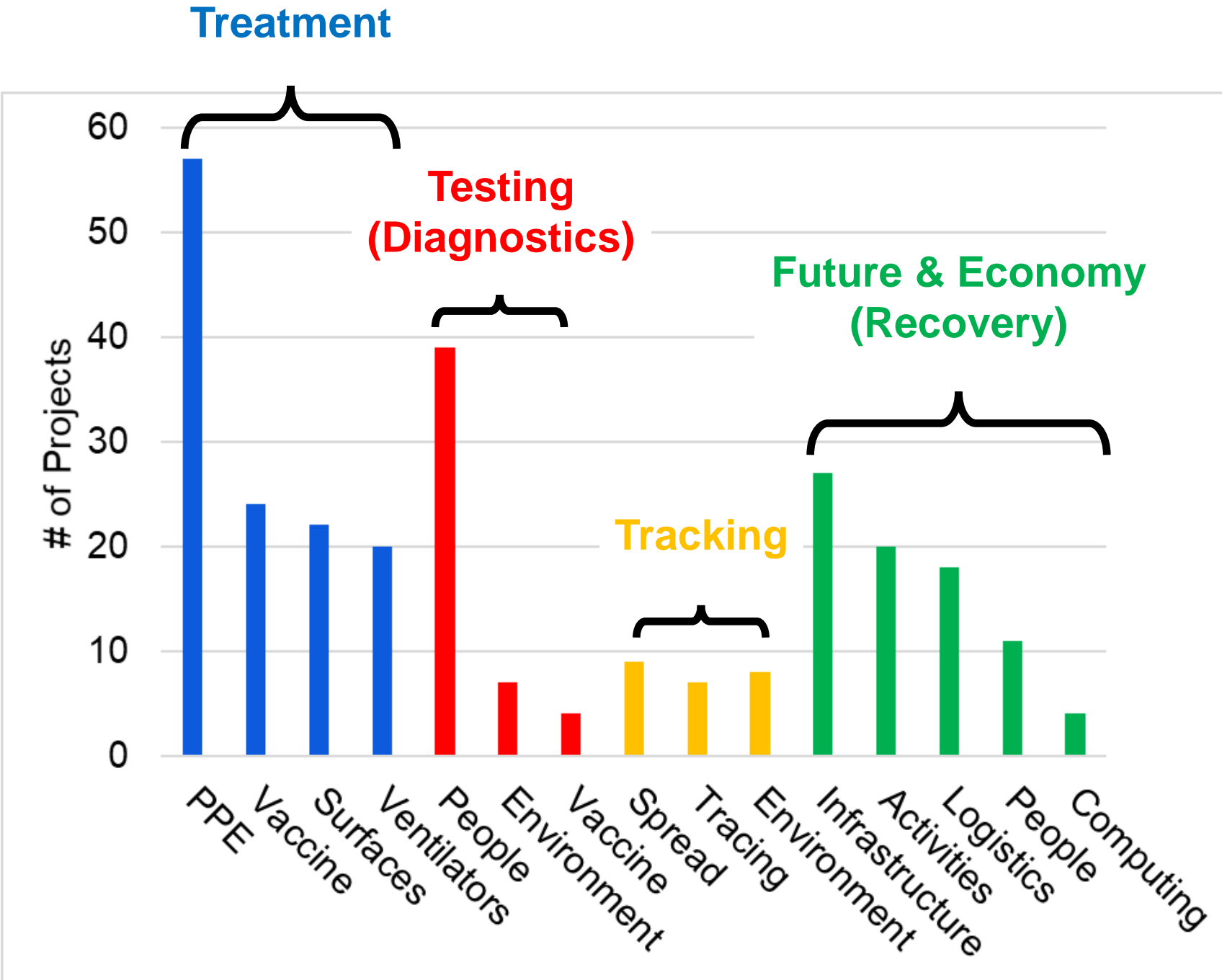


**Tracking**

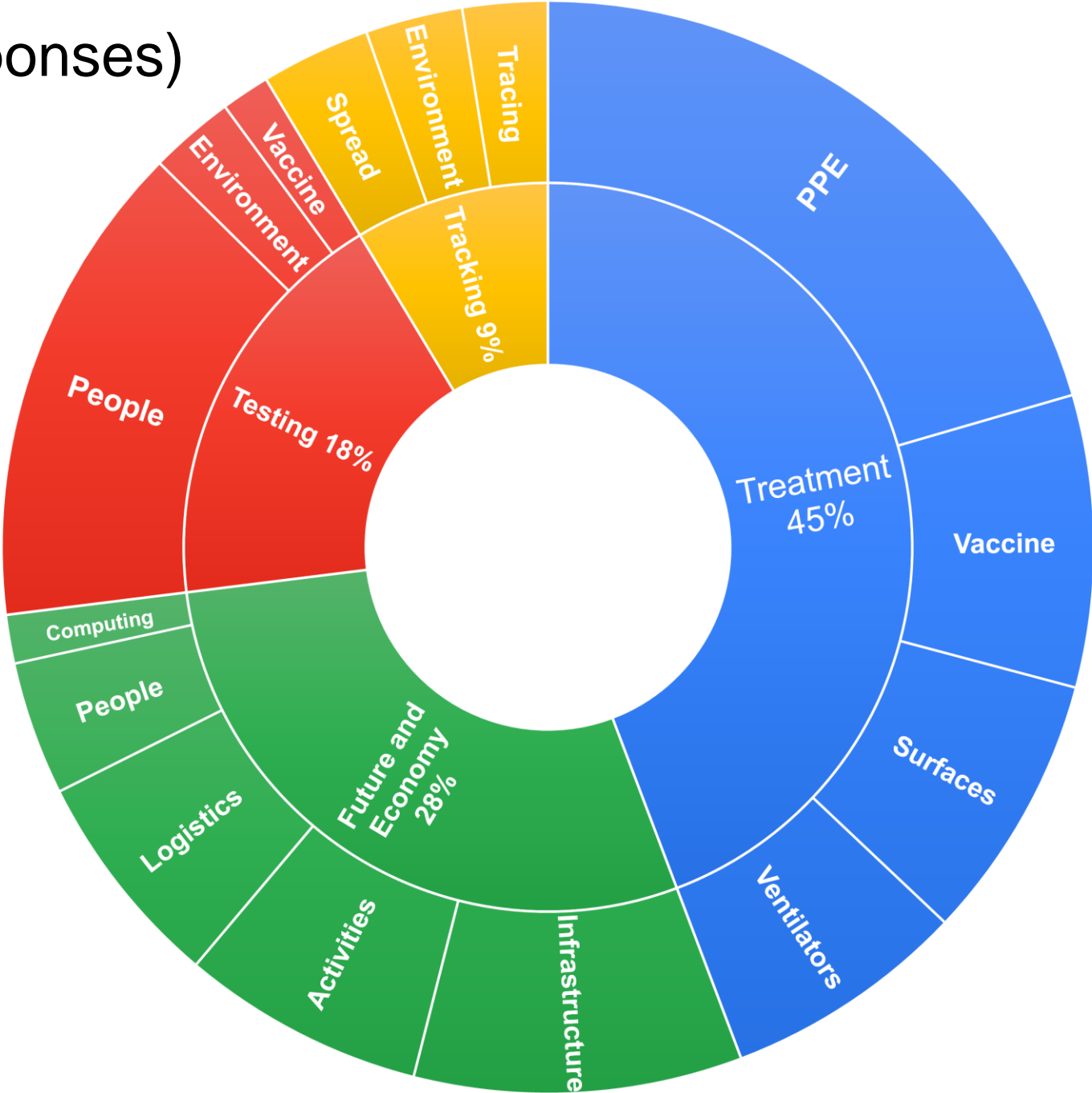


**Future & Economy  
(Recovery)**

# COVID-19 Engineering Research Areas



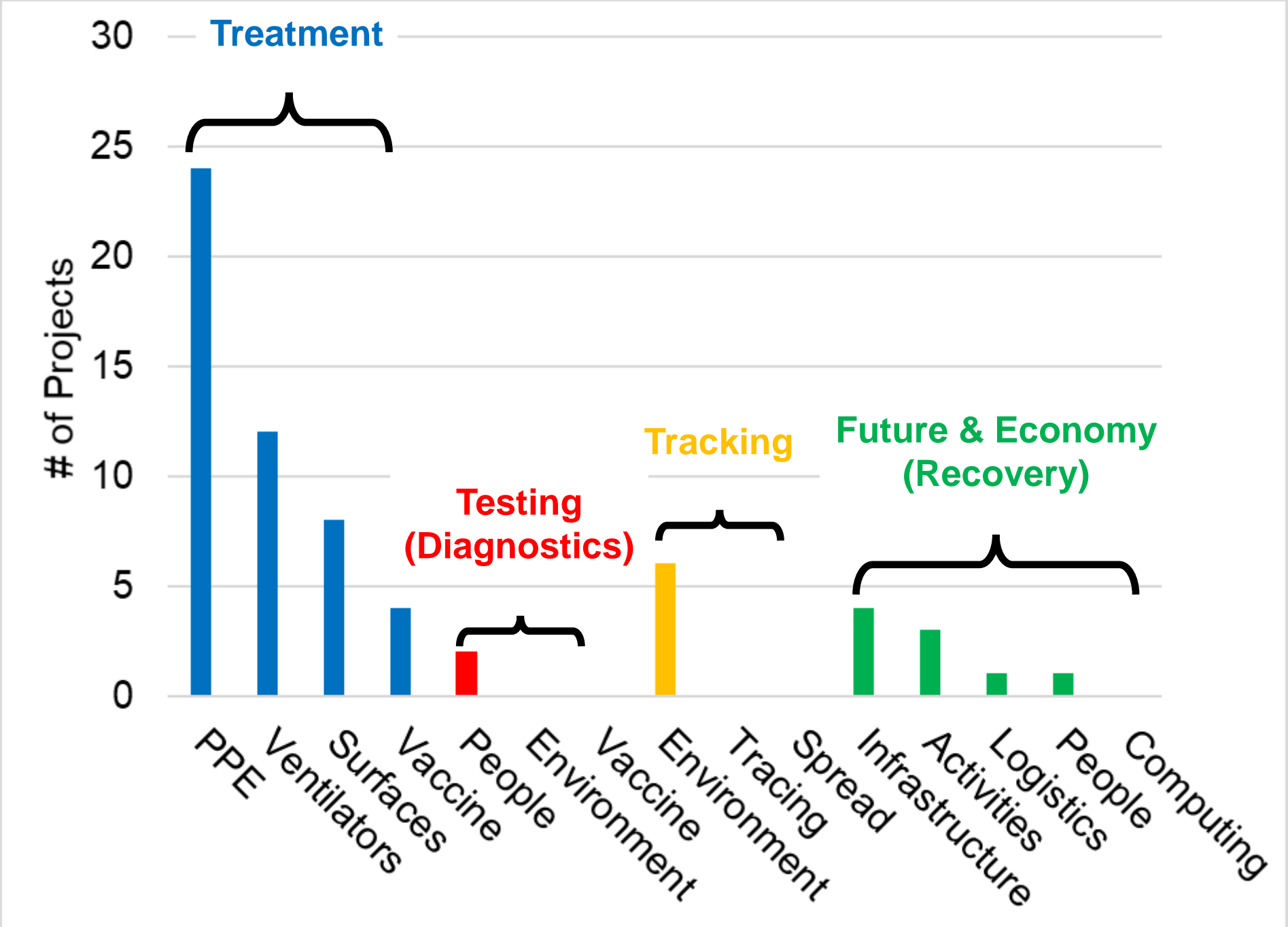
# Research Areas (All Responses)



Additional Slides

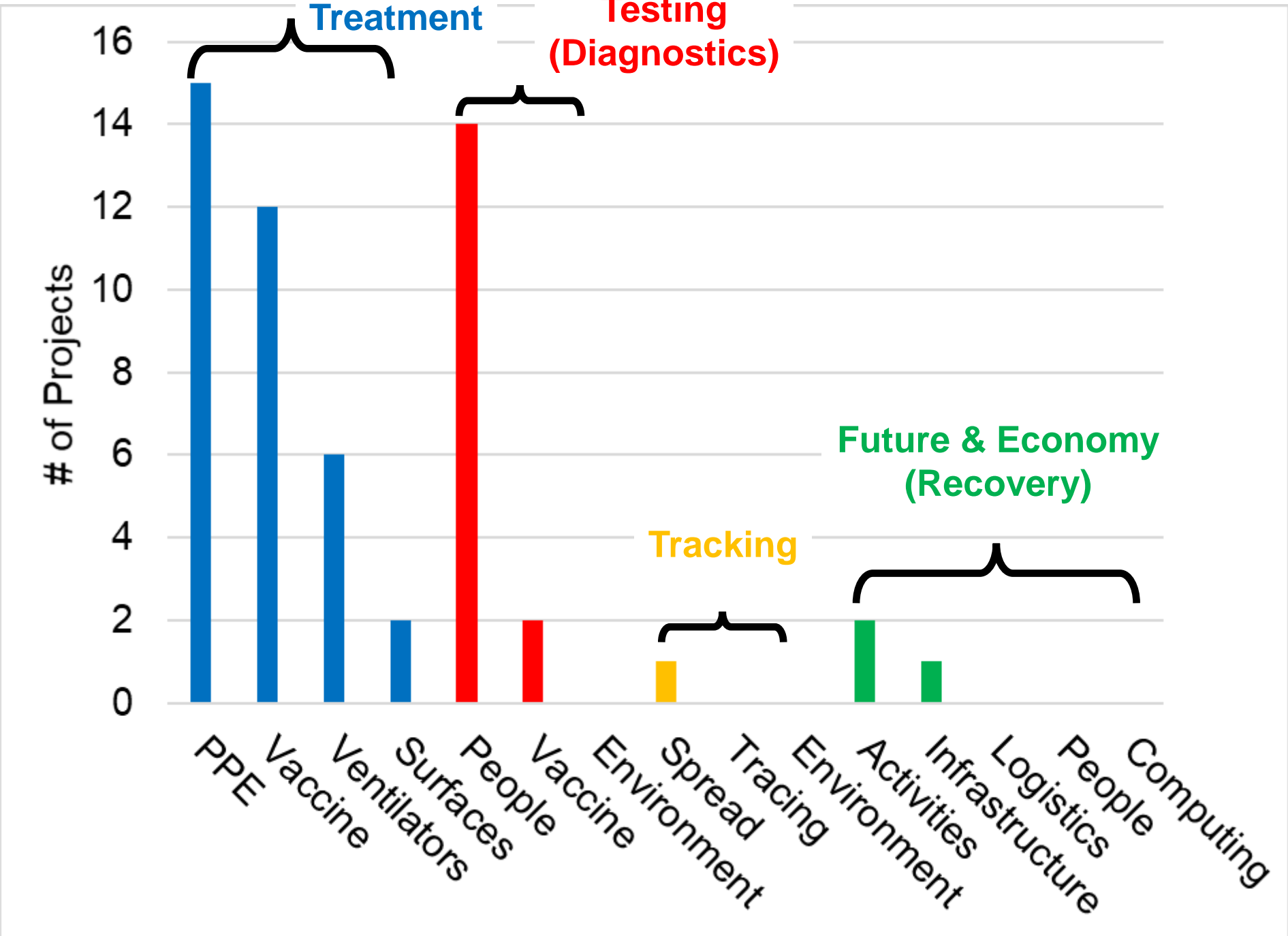


# COVID-19 Engineering Research Areas (Mechanical)





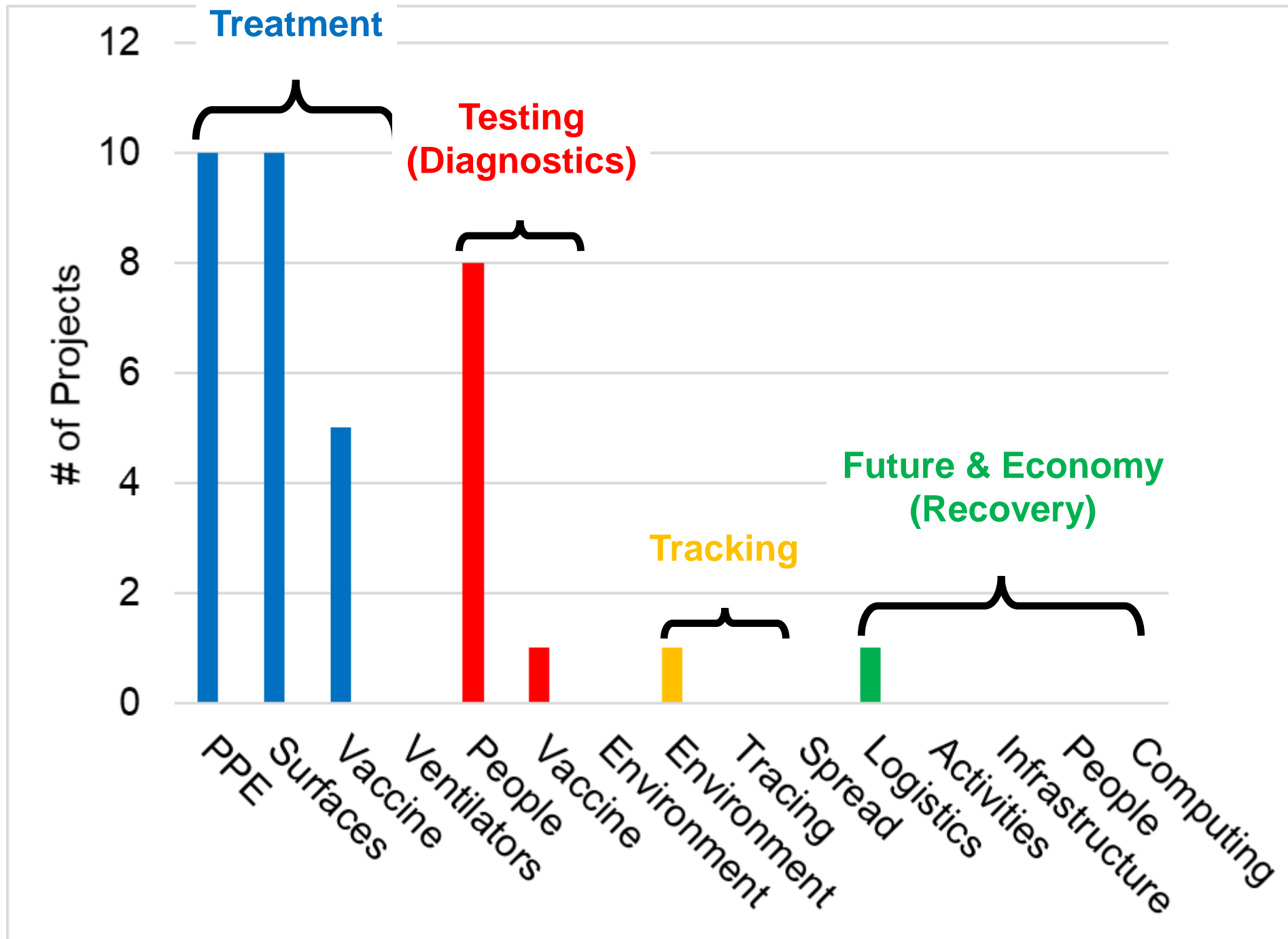
# COVID-19 Engineering Research Areas (Biomedical)





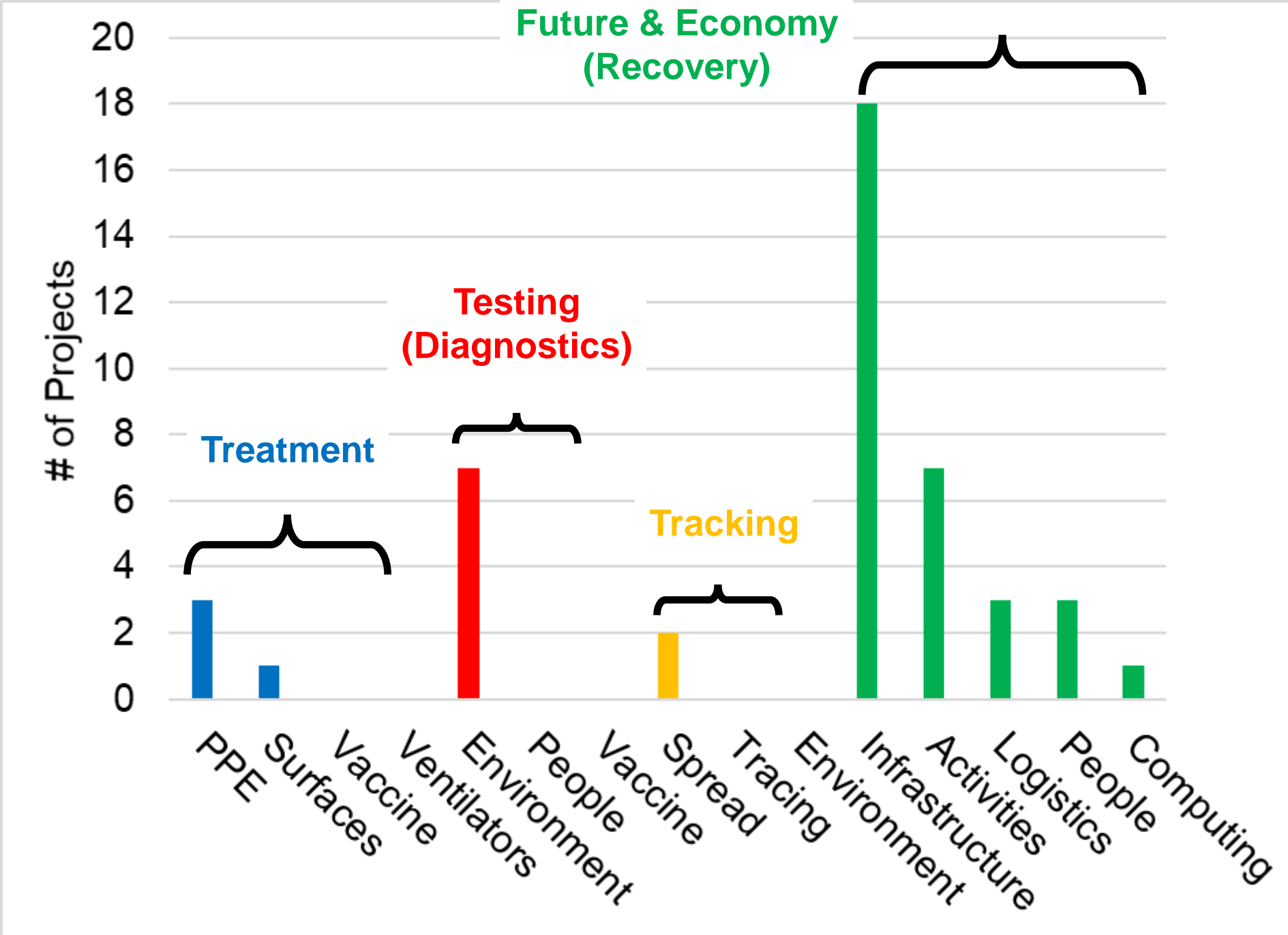


# COVID-19 Engineering Research Areas (Chemical)

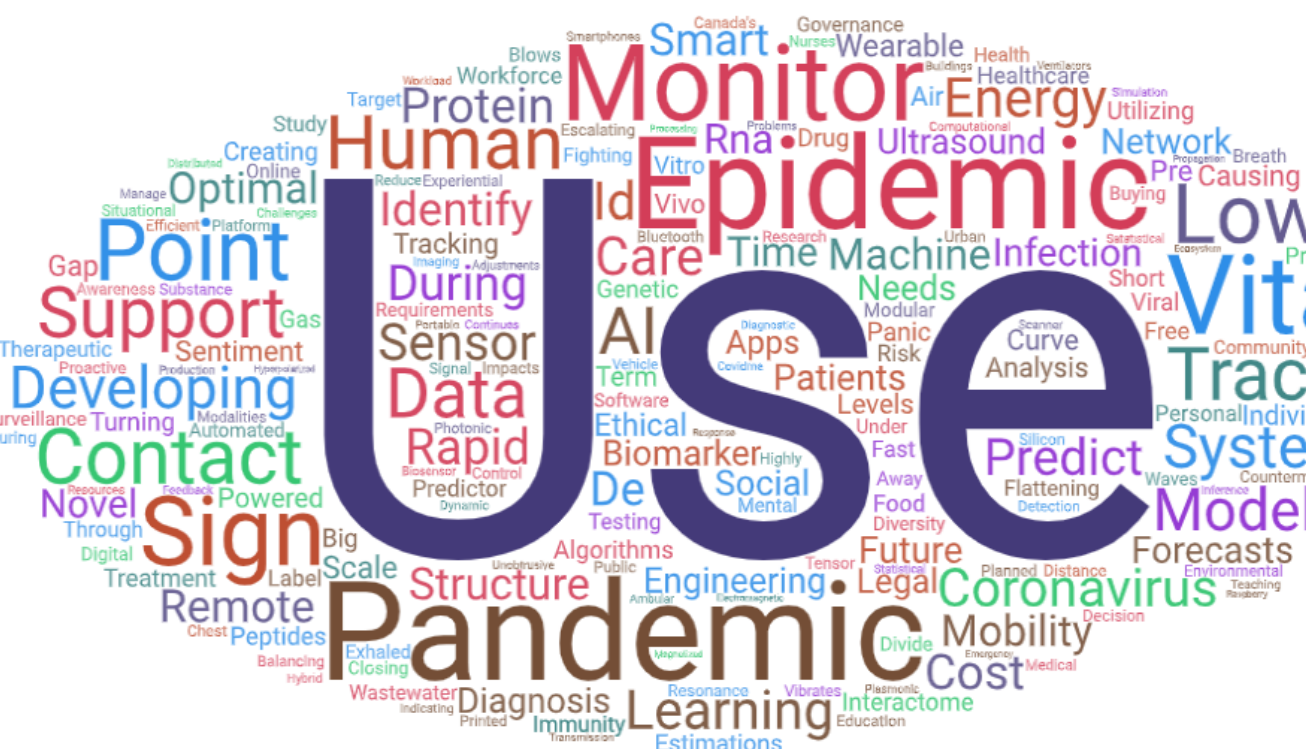




# COVID-19 Engineering Research Areas (Civil)



# Electrical and Computer Engineering (ECE) – 40 projects



# COVID-19 Engineering Research Areas (ECE)

