

Applied Superforecasting

Society of Decision Professionals



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From Robust Research to
Practical Tools for Decision Making

AI and The Future of Superforecasting
in the Decision Process

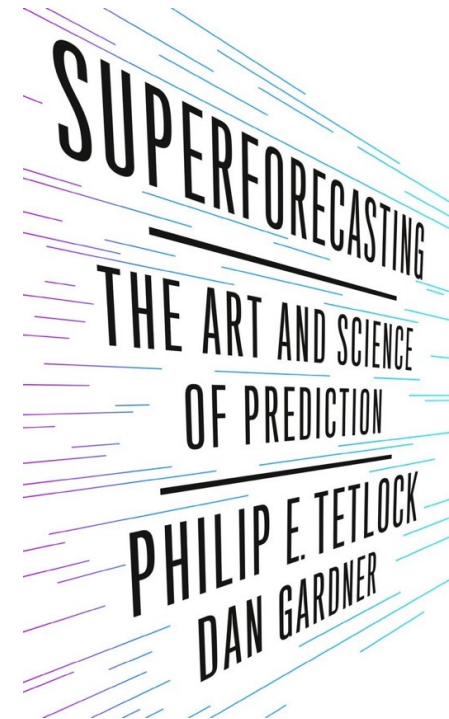
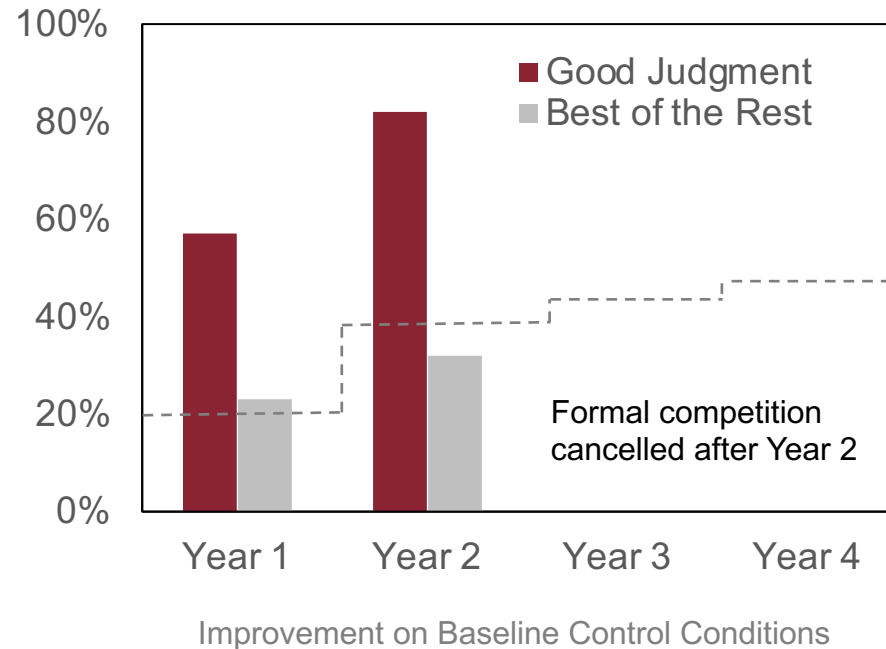


US Gov't Geopolitical Forecasting Tournament

Two core requirements:

Forecasts to be submitted as numerical probabilities at the end of every day.

Forecasting process to include the “wisdom of the crowd.”





>50%

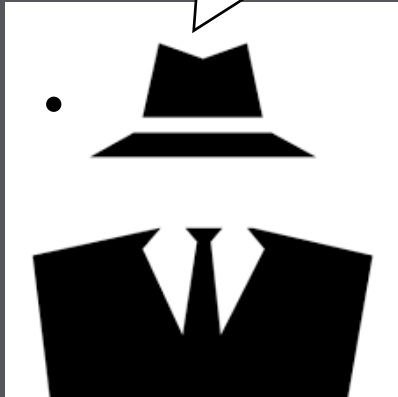


Will invading Cuba be successful?

Timely execution of this plan has a **fair chance of success.**

Go ahead!

25%



How to Boost Forecasting Accuracy 75%



Superforecasting Covid 19

Early 2020: How serious will the pandemic be?

Many leading experts said the risks were small:

- US CDC Director John Redfield: “The risk to the public is **low**.”
- UK Health Minister Matt Hancock: The risk to the UK public is “**low**.”
- Nobel laureate Michael Levitt: The virus will **probably** disappear from China by the end of March 2020.

Superforecasters: The base case will see a 6-digit caseload before April 2020.

Outcome: Total global cases rose above 200,000 on 19 March 2020.

Superforecasting Covid 19 Vaccination

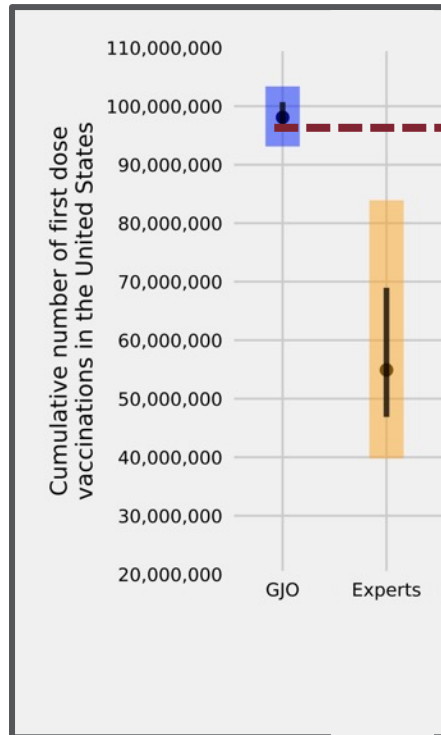
In January 2021, we asked this question: At the end of March 2021, what will be the cumulative number of people who receive one or more doses of a COVID-19 vaccine in the US?



Superforecasters
(GJO)

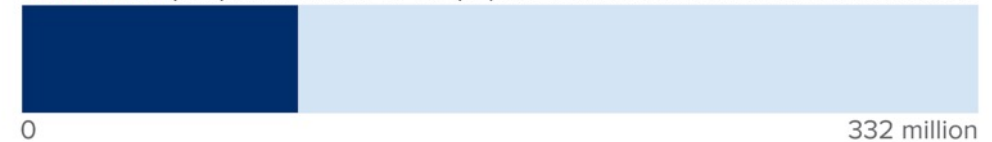
VS.

Experts
in modeling
infectious
diseases

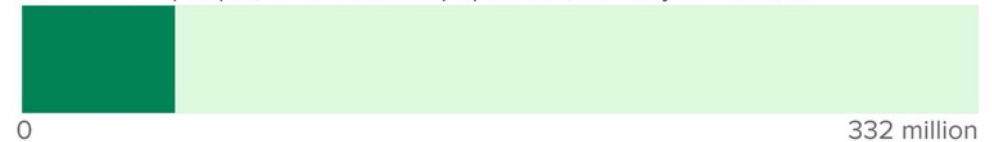


U.S. vaccination progress

96.0 million people, or 28.9% of the population, have received at least one dose



53.4 million people, or 16.1% of the population, are fully vaccinated

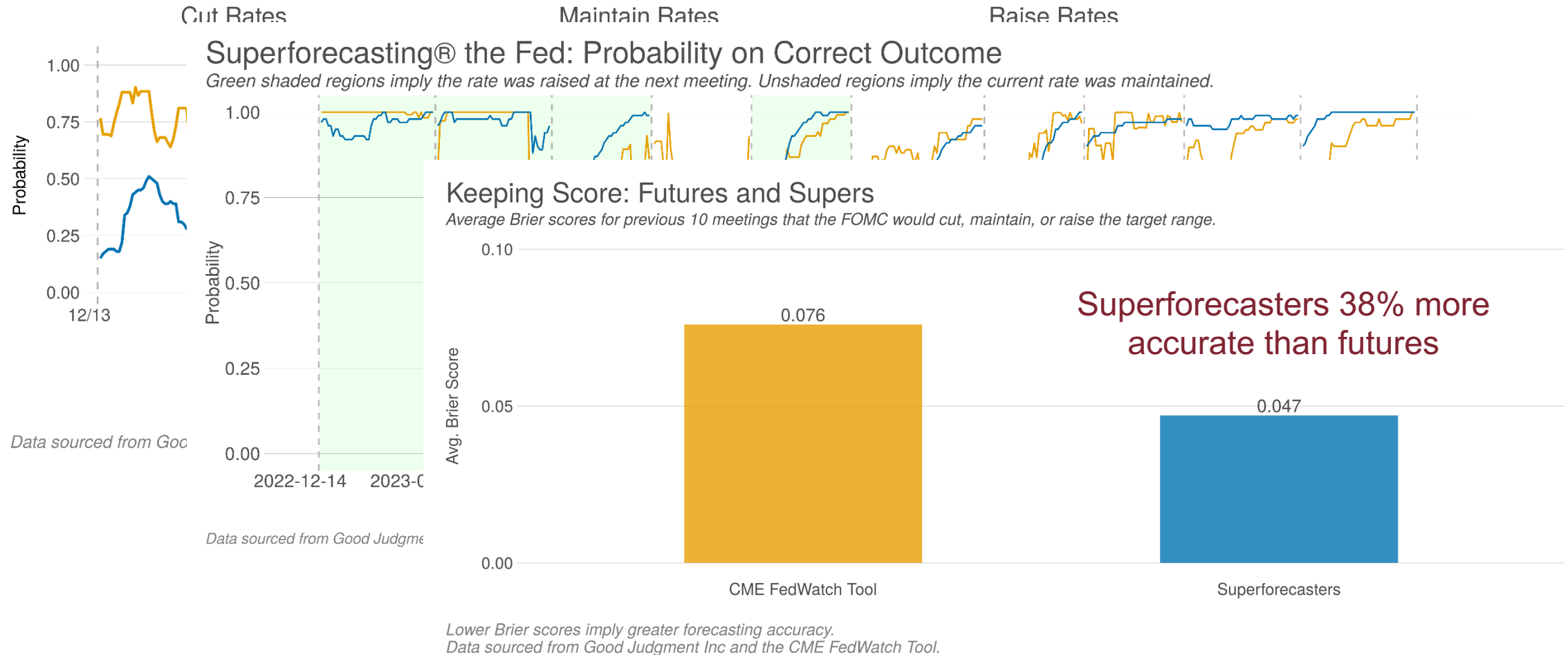


SOURCE: Centers for Disease Control and Prevention (CDC). Data as of 3/30/21. Figures include U.S. territories. The CDC includes recipients of the one-shot Johnson & Johnson vaccine in both of the above categories.



Superforecasting The Fed

Superforecasting® The Fed's March 2024 Meeting Decision



Superforecasting Decision Cycle

Different skills are needed at different parts of the Superforecasting decision cycle

Few individuals have all skills

Experts are great question askers but not always good forecasters—unless they receive feedback as forecasters

Also, having the forecasters outside of the decision itself helps ensure independent judgments for the decision-maker



Expertise and Forecasting

1. Identify international military officers on GJOpen
2. Classify questions forecasted by officers into:
 - **Military confrontation**
(Before 1 March 2021, will there be lethal confrontation between the forces of Taiwan and China?)
 - **Non-military confrontation**
(Will the Washington Football team win five or more regular season games in 2020 NFL season?)

Accuracy of Military Officers vs. Crowd (baseline)

Non-military questions

-17%

Military questions

-63%

* Based on data before attending workshops

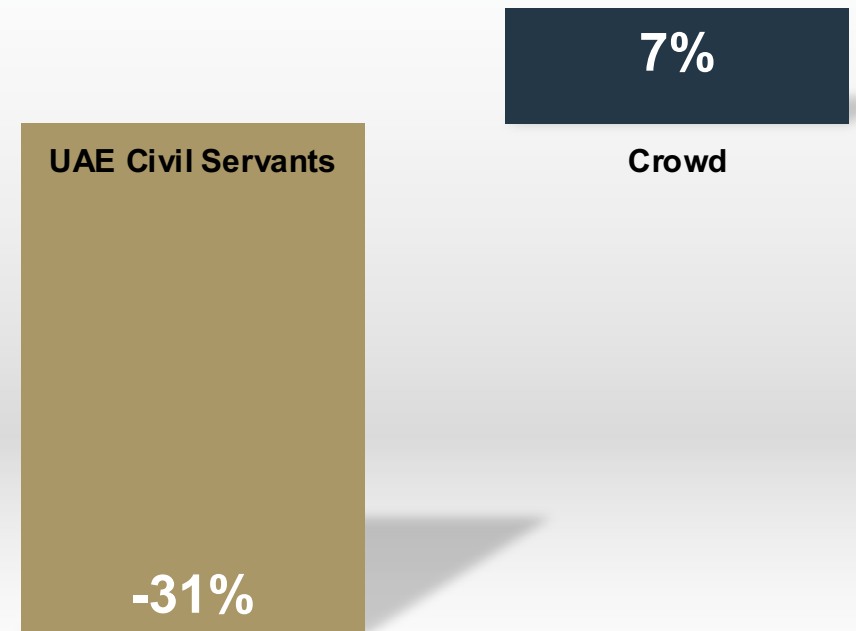
Expertise and Forecasting

1. Post questions on GJOpen that UAE civil servants wrote and considered important to UAE (Will Dubai's EXPO 2020 attract 25 million visits?)

2. Compare performance on UAE questions for:
- UAE civil servants
 - Crowd

Ideal Forecaster
=
Subject Matter Expertise
+
Forecasting Expertise

Accuracy of UAE Questions vs. Non-UAE Questions (baseline)



Expertise and Forecasting



AI Risks

In November 2023, we asked: Will a Superhuman Artificial Intelligence have the capability to extinguish humanity by 2100?

Experts: 95%

Superforecasters: 43%



AI in the Superforecasting Decision Cycle



Thank You!

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