OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE

Forecasting Science & Technology (ForeST)

LEADING INTELLIGENCE INTEGRATION

Jason Matheny, IARPA

Program Goal

- Develop and test methods for generating accurate and timely forecasts for significant science and technology milestones, by efficiently aggregating the judgments of many experts
- Technical approach:
  - Generate good forecasting questions
    - From forecasters and topic leaders, through crowd-editing
    - From indicators in the scientific and patent literatures (FUSE)
  - Elicit and combine forecasts from thousands of scientists and engineers, globally, using a combinatorial prediction market -- SciCast.org

Research Teams

George Mason University
Gold Brand Software LLC
inkling Markets
KADSCi
Tuuyi

BAE Systems
1790 Analytics

SRI International

Evaluation Team

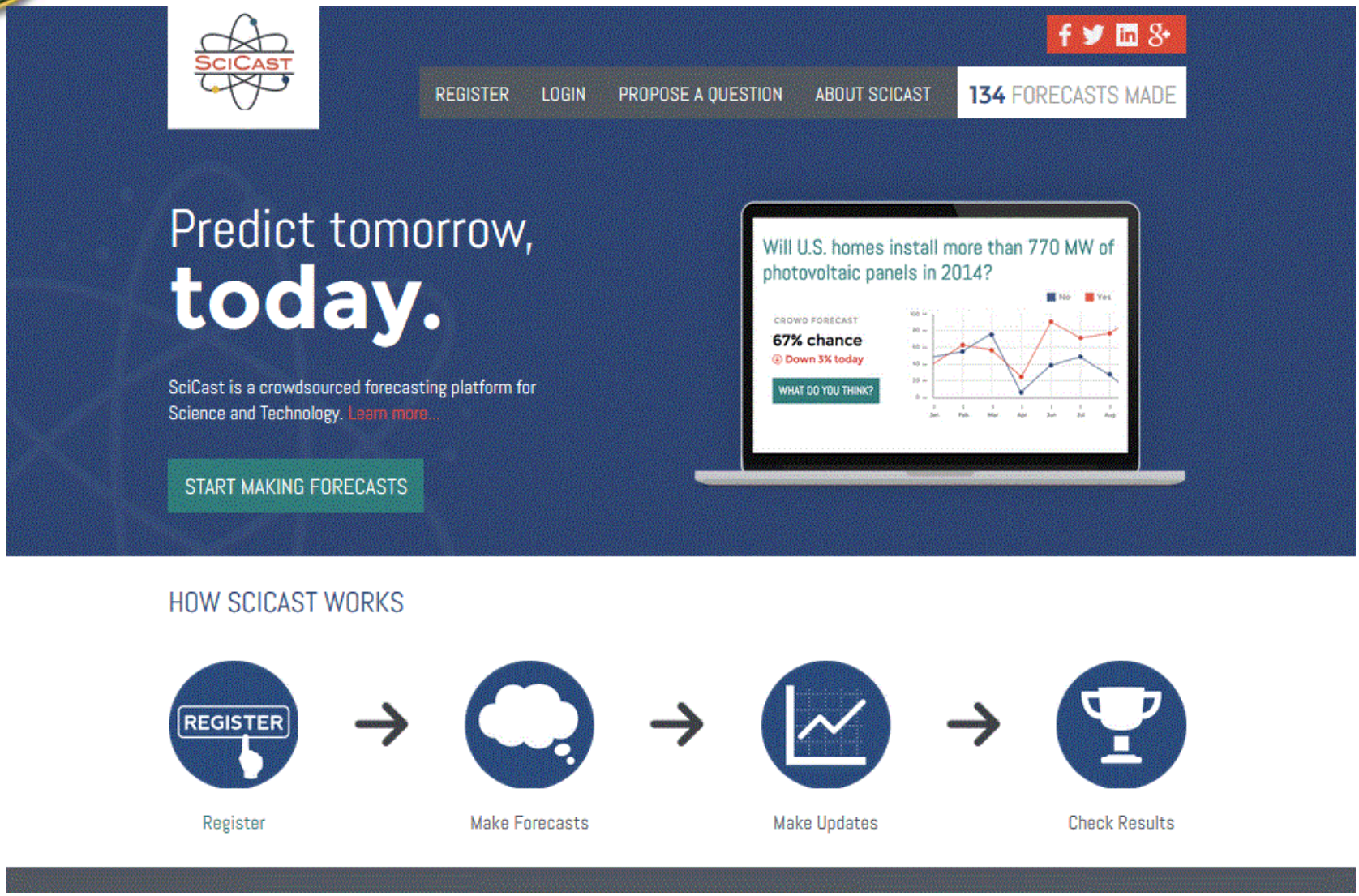
MITRE

Evaluation

- Develop and test methods in parallel. As with all IARPA programs, the program is evaluated every six months.
- Run the world's largest S&T forecasting tournament.
- Evaluate using real events (1,000 per year). E.g., "Will $100 whole human genome sequencing costs be achieved in 2015?"
- Evaluate against best known approaches: statistical models, deliberating experts, flat prediction markets, intelligence community forecasts.

SciCast

- SciCast is a prediction market focused on science and technology. It aggregates the knowledge and expertise of a diverse group of professionals & non-professionals from around the world and returns probable forecasts on future innovations.
- SciCast is different from other prediction markets because ***it can create and explore relationships between questions***.


SciCast
REGISTER
LOGIN
PROPOSE A QUESTION
ABOUT SCICAST
134 FORECASTS MADE
Predict tomorrow,
today.
SciCast is a crowdsourced forecasting platform for Science and Technology. Learn more...
START MAKING FORECASTS
Will U.S. homes install more than 770 MW of photovoltaic panels in 2014?
CROWD FORECAST
67% chance
Down 3% today
WHAT DO YOU THINK?
HOW SCICAST WORKS
REGISTER
Register
Make Forecasts
Make Updates
Check Results

Will a new Heartbleed-like exploit be publicly known by June 1, 2014?

6% Chance
Up 4% today

WHAT DO YOU THINK?

Status: Open • Closed after: May 31 2014 • 63 Forecasts • 12 Comments

When will 99% of the top 1 million web domains in the world be immune to Heartbleed?

WHAT DO YOU THINK?

HIDE POSSIBLE ANSWERS <

Status: Open • Closed after: June 30 2014 • 9 Forecasts • 0 Comments

By April 30, 2014	0% Chance Unchanged today
May 1, 2014 - May 15, 2014	1% Chance Unchanged today
May 16, 2014 - May 31, 2014	8% Chance Unchanged today
June 1, 2014 - June 15, 2014	8% Chance Unchanged today
June 16, 2014 - June 30, 2014	12% Chance Unchanged today
Will not occur before July 1, 2014	71% Chance Unchanged today

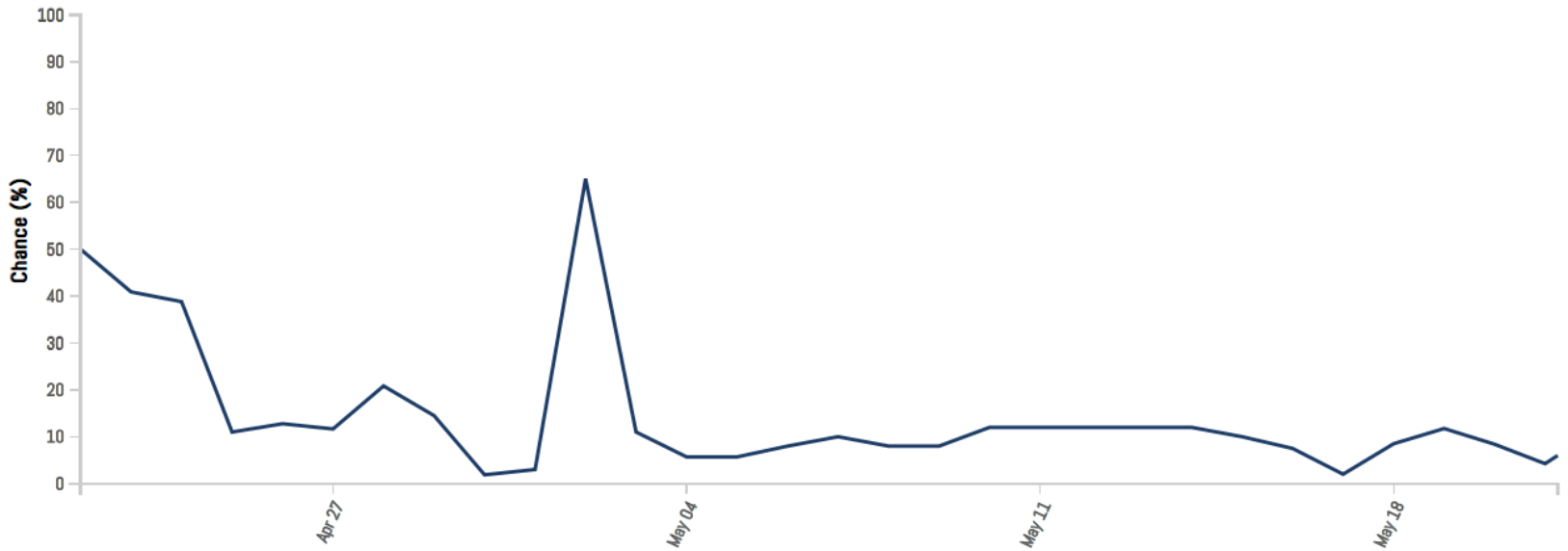
Will a new Heartbleed-like exploit be publicly known by June 1, 2014?

Make a Forecast | Discussion (12) | Background | Trends & History

SHARE

Trends

Trend data is updated multiple times per day. The last value on the graph is always the current forecast for that answer.



Will the number of reported cyber attacks on the U.S. national electric grid surpass 250 incidents in 2014?

61% Chance
Unchanged today

WHAT DO YOU THINK?

Status: Open • Closed after: December 31 2014 • 2 Forecasts • 0 Comments

Will cyber threats be more costly than physical threats to the U.S. national electric grid in 2014?

50% Chance
Unchanged today

WHAT DO YOU THINK?

Status: Open • Closed after: December 31 2014 • 0 Forecasts • 0 Comments

Will there be a RFID malware attack by the end of 2014?

21% Chance
Unchanged today

WHAT DO YOU THINK?

Status: Open • Closed after: December 31 2014 • 4 Forecasts • 0 Comments

Which smart technology in the Internet-of-Things will be most vulnerable to cyber-attacks in 2014?

50% Chance
Unchanged today

WHAT DO YOU THINK?

Status: Open • Closed after: December 31 2014 • 0 Forecasts • 0 Comments

Will wearable technology increase the susceptibility of malware attacks on consumer devices in 2014?

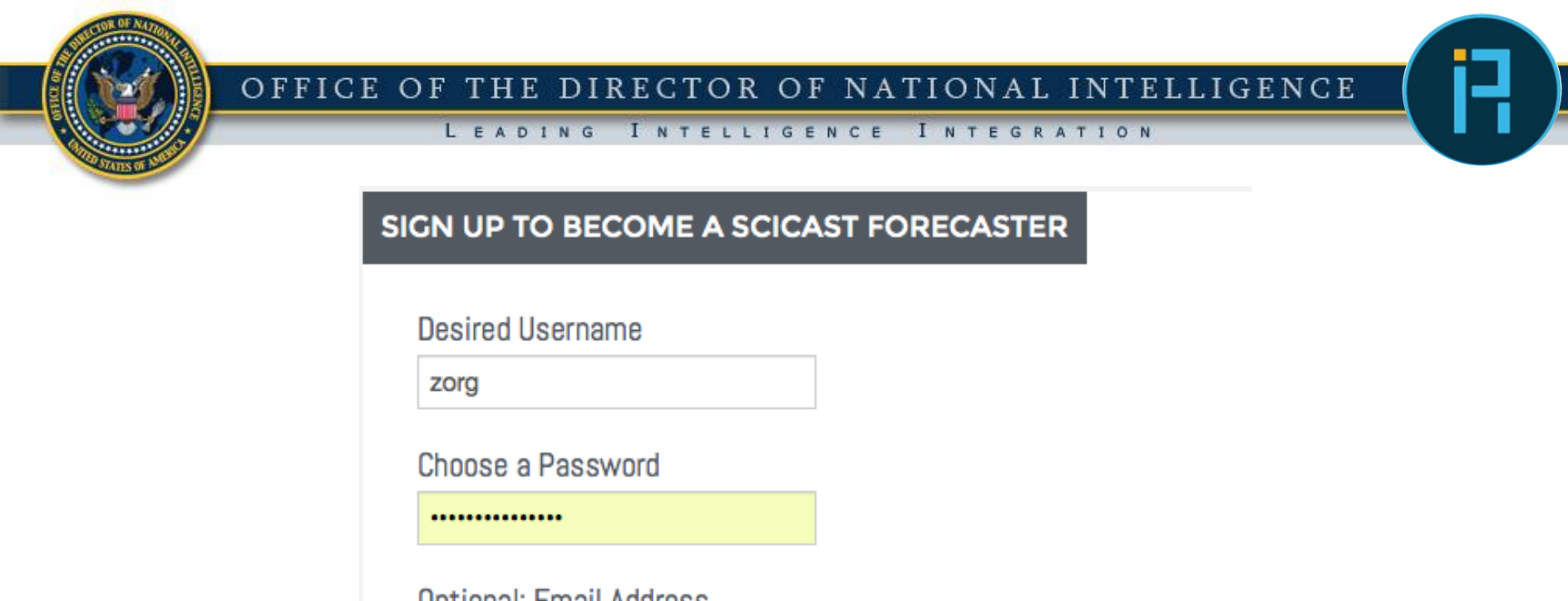
45% Chance
Unchanged today

WHAT DO YOU THINK?

Status: Open • Closed after: December 31 2014 • 3 Forecasts • 0 Comments

Participation

- Think these forecasts are wrong? Fix them!
- Stop by the SciCast table to add your estimate, or sign up using your own laptop
- Why forecast?
  - Improve collective intelligence about security threats (and dozens of other topics)
  - Earn bragging rights among friends and frenemies
  - Win highly coveted Amazon gift cards


SIGN UP TO BECOME A SCICAST FORECASTER
Desired Username
zorg
Choose a Password
Optional: Email Address
Optional: Pick topics of interest to improve your experience
I am eighteen (18) years of age or older and have read, understand and agree to the informed consent statement.
SUBMIT