

Smart Gigabit Communities (SGC) Steering Group Meeting

March 7, 2017



Background on US Ignite SGC

- 501 (c)(3) launched at White House in 2012 that fosters the development and deployment of advanced networking applications.
- National Science Foundation awarded US Ignite \$6 million, three-year grant in 2015 for Smart Gigabit Communities program as part of Smart Cities initiatives.
- Major goal is to create a sustainable ecosystem of smart and connected cities that develop and share gigabit applications that provide technology solutions to address issues faced by that community and transformative public benefit.
- SGC communities develop 2 gigabit applications per year x 3 years = 6 applications to create an “app store” and connected via high-speed network backbone.

US Ignite Smart Gigabit Communities



Six National Priorities

1. Clean energy
2. Education and workforce technologies
3. Health information technologies
4. Public safety
5. Transportation, and
6. Advanced manufacturing

State of Play

- Identify Austin's priority areas out of six national priority areas.
 1. Transportation
 2. Education/Workforce Development
 3. Clean Energy
 4. Healthcare Technologies
 5. Public Safety
- Seek Steering Group confirmation on a Reverse Pitch Competition with prize money to seek and select ideas for gigabit application development based on Austin's priority areas.
- Recruit Technical Leader for project.

US IGNITE FUNDING BREAKDOWN FOR SGC'S



SGC

GENI RACK FUND

US Ignite will fund:

- GENI rack (paid directly to GENI rack provider)
- GENI connection fees
- Installing and connecting the GENI rack to the GENI network (US Ignite contractors)



\$30K

TECHNICAL LEADER FUND

\$30K/year up to 3 years:

- Local
- 1+ day a week/available when needed
- Send to SGC for feedback and signoff
- Fill out paperwork and funds will follow
- Quarterly report



\$25K

APP DEVELOPMENT STARTUP FUND

\$25K (one time):

- Share your SGC draft Apps Development Startup Strategy with milestones, timelines & budget (1-3 pages) for one time funding \$25K)
- Fill out paper work and funds will follow
- Quarterly report



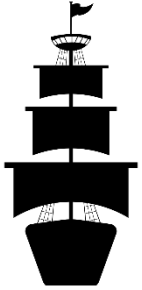
\$20K

APP INTEROPERABILITY FUND

\$20K/year up to 3 years:

- \$10K/app
- Documentation and Support for Apps to be used by other SGCs
- Share your SGC draft Apps Development Startup Strategy with milestones, timelines & budget (1-3 pages)
- Fill out paperwork and funds will follow
- Quarterly report

Notable Milestones in the History of Challenge Prizes



The Longitude Act - 1714

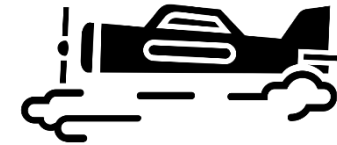
Prize: \$4 million+ (2017 USD equivalent)

Challenge: More precisely determine a ship's longitude

The Orteig Prize - 1919

Prize: \$343,000+ (2017 USD equivalent)

Challenge: Fly nonstop between New York City and Paris



The Ansari X-Prize - 1996

Prize: \$10 million

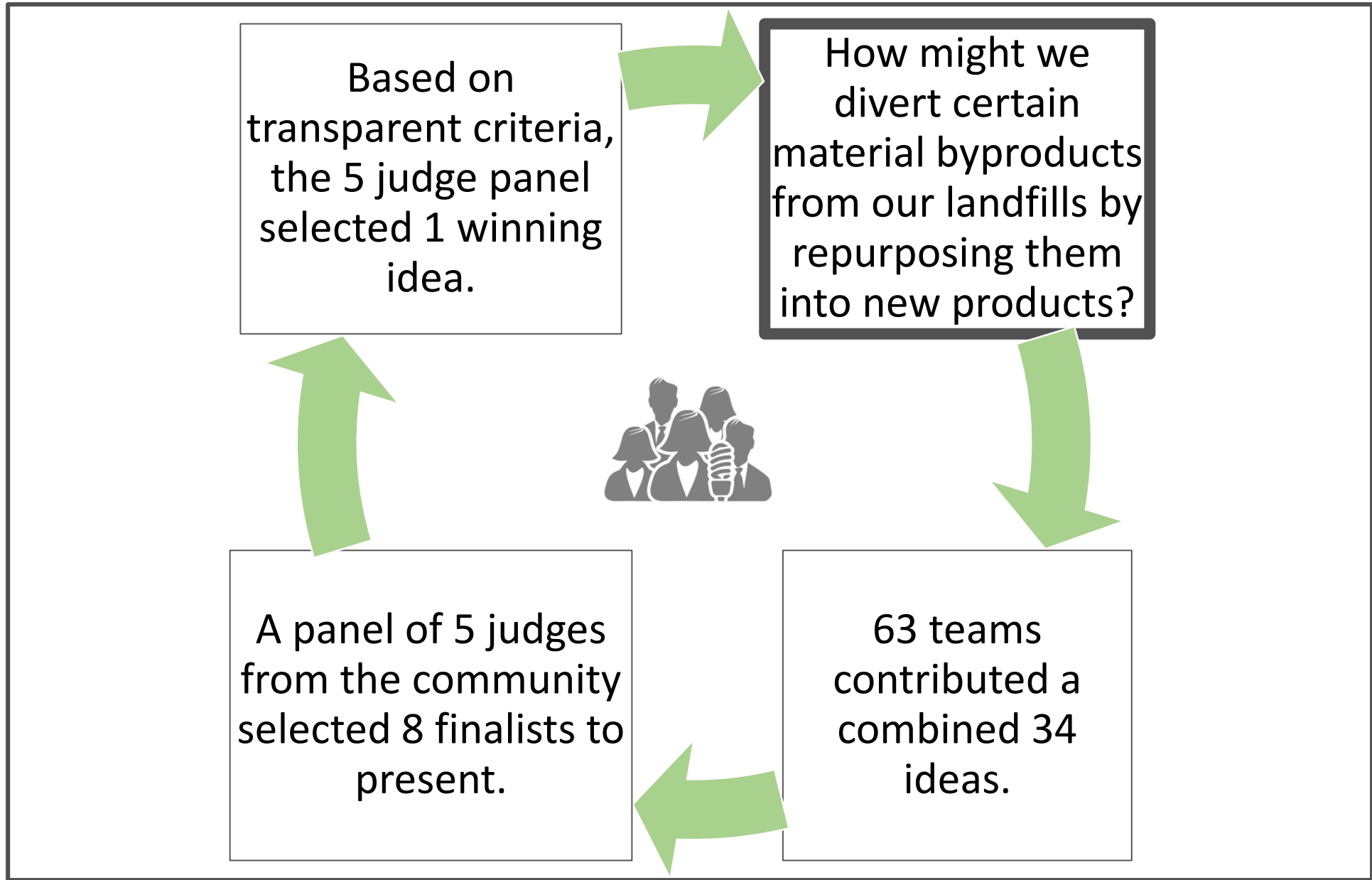
Challenge: "lower the risk and cost of going to space with a reliable, reusable, privately-financed, manned spaceship."

Source: <http://ansari.xprize.org/teams>

[RE]verse Pitch Case Study



[RE]verse Pitch Feedback Loop



63 competitors collaborating
across 32 teams

34 Ideas
submitted

[RE]verse 2.0

By the Numbers

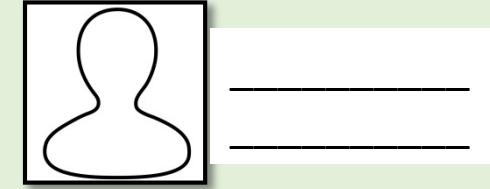
5 fewer weeks
to plan
competition

154
event
attendees

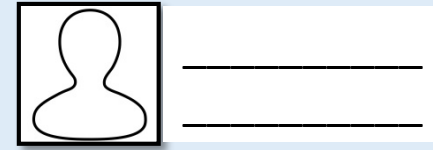
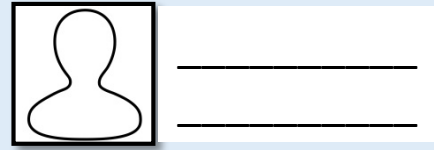
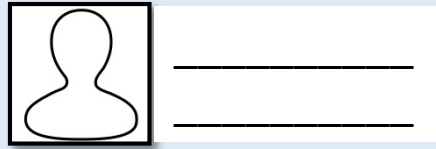
52 Volunteer
mentors &
advisers

Reverse Pitch Competition Roles and Opportunities

Sponsors:



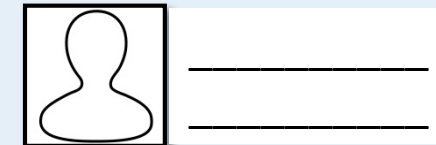
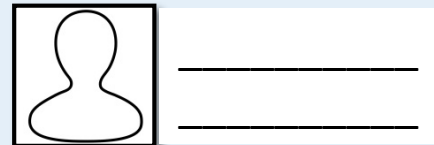
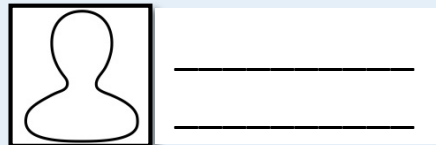
**Mentors
and Advisers:**



Participants



Evaluators



Technical Lead: Areas of Responsibility

- Determine strategy for the Digital Town Square (DTS) that will connect all of the "islands of gigabit" in our community into an end to end experience, from computer centers and application hosts, through gigabit switches and to end users through appropriate gigabit service providers.
- Connect with local developers and meet-up groups, and work to build advanced skills for gigabit networking and applications.
- Coordinate with local SGC gigabit application developers to help create milestones, measure and report on progress and help deploy applications into the local DTS.

Technical Lead: Areas of Responsibility

- Participate in monthly calls with other SGC communities to identify opportunities for additional education and support, ensure alignment with the overall US vision, and work to build toward a nationally networked, cohesive SGC environment.
- Work closely with a team from the City of Austin responsible for leading Austin's Smart Gigabit Communities initiative.
- Compensation is \$30k for a one-year term, serving around one day per week for up to 3 years.

Technical Lead – Next Steps

- Provide materials to steering group members for outreach and possible nominations.
- Publicize through official City of Austin channels.
- Develop selection criteria and panel.
- Evaluate nominations and conduct interviews.
- Select and onboard Tech Lead.

Next Steps

- Firm up dates on Reverse Pitch Competition
- Identify opportunities for Steering Group participation