Comcast Innovation Fund

2018 ANNUAL REPORT

Summary of the Fund's Operations for the 2018 Operating Year

Comcast Innovation Fund at-a-glance:
2018 Executive Summary

BACKGROUND

We know that innovation defines the future of our company, our industry and our connected world. Comcast is committed to fostering a culture of innovation that permeates every level of our business, and we've witnessed firsthand how some of the greatest breakthroughs occur when you simply give smart people the time and resources they need to innovate.

The Comcast Innovation Fund was established to support researchers, technologists, and academics who are committed to the betterment of the Internet and the global technology and policy community.
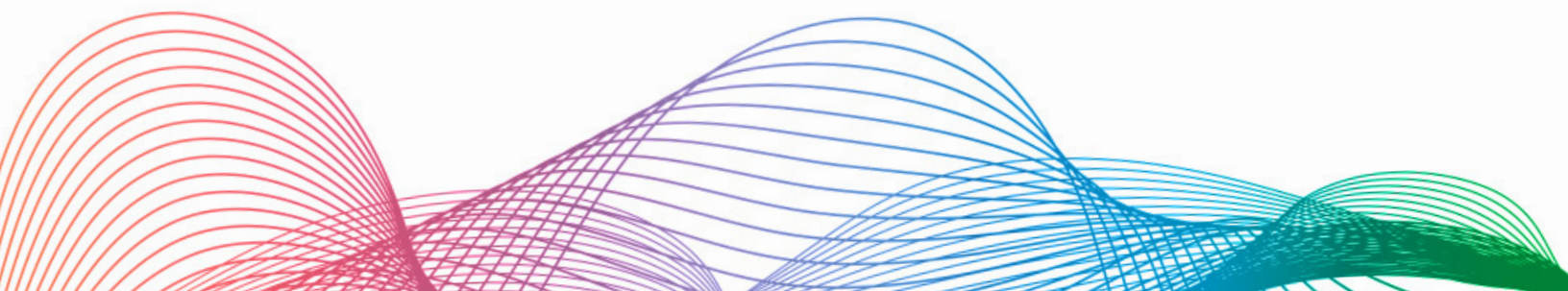
Grants range from $3,000 for smaller projects, up to more than $100,000 for medium-term research efforts. A cross-functional team of technology and business leaders within Comcast reviews grant applications and directs funding where it is most needed and can have the greatest impact.

In 2018, we funded 17 grants from a large pool of worthwhile applications. Since the Fund's inception five years ago, Comcast has supported 128 projects from researchers in 13 countries around the world. We've been inspired by the results of this research and are committed to continuing the program into the future.

FOCUS ON IMPACT

Through the innovation fund, we focus on small and midsized projects that may slip between the cracks of traditional research funding sources. The multidisciplinary team of subject matter experts that review applications look for research projects that move technology forward by tackling difficult problems or pioneering new approaches. In 2018, particular weight was given to projects that:

- Address cybersecurity, safety, and privacy threats that face our customers and our services.

- Create or advance important open-source projects.

- Advance the development and adoption of emerging open Internet standards, as well as the transition from legacy to IP technologies.

- Improve the accessibility, operational stability, security, growth, and impact of the Internet.

- Improve the technical community's understanding of the Internet, transparency, and the customer experience via better measurement technologies.

- Advance and improve the customer experience of our services, and contribute to the creation of better products.

GRANT TYPES

The Fund offers grant that are either research grants, open source development grants, or a combination of the two.

- **Research Grants** – These unrestricted grants are given to support researchers, technologists, and academics. They are geared toward supporting research in a range of fields relevant to the Internet and online communication. These grants support researchers and targeted research projects, usually at colleges and universities, and are focused on supporting excellent technical research in a wide variety of fields that are relevant to Comcast or of benefit to the Internet and broadband industries.

- **Open Source Development Grants** – These grants are intended to support the creation and advancement of important open source projects, including those that may not have immediate business value, but which carry the potential for important technological development. They are intended to fund new or continued development of open source software in areas of interest to Comcast or of benefit to the Internet and broadband industries.

2018 GRANTS BY COUNTRY

- France **1**
- Switzerland **1**
- USA **15**

HOW TO APPLY

We accept proposals on a rolling basis throughout the year. To apply, visit the Innovation Fund web site at **http://innovationfund.comcast.com/.**

COMCAST

About Comcast: Comcast Corporation (Nasdaq: CMCSA) is a global media and technology company with three primary businesses: Comcast Cable, NBCUniversal, and Sky. Comcast Cable is one of the United States' largest high-speed internet, video, and phone providers to residential customers under the Xfinity brand, and also provides these services to businesses. It also provides wireless and security and automation services to residential customers under the Xfinity brand. NBCUniversal is global and operates news, entertainment and sports cable networks, the NBC and Telemundo broadcast networks, television production operations, television station groups, Universal Pictures, and Universal Parks and Resorts. Sky is one of Europe's leading media and entertainment companies, connecting customers to a broad range of video content through its pay television services. It also provides communications services, including residential high-speed internet, phone, and wireless services. Sky operates the Sky News broadcast network and sports and entertainment networks, produces original content, and has exclusive content rights. Visit www.comcastcorporation.com for more information.

Comcast Innovation Fund Annual Report 2018
Individual Grant Listing

Brigham Young University

DNS Resolvers – A Study in Proximity and Unintended Exposure

Center for Applied Internet Data Analysis (CAIDA) at the University of California San Diego

ARTEMIS (Automatic and Real-Time Detection and MItigation System): Neutralizing BGP Hijacking

Clarkson University

Network-wide Verification on IPv6 Forwarding Behaviors

Drexel University

Enhancing the MAC Layer for LoraWAN-Based IoT Networks

Family Online Safety Institute(FOSI)

Online Safety Across the Generations

German Marshall Fund

Strengthening Transatlantic Collaboration in the Digital Age

INRIA

Application Performance Bottleneck Detection

Linux Foundation

Support Upstream Yocto Project Feature Development and Releases

Northeastern University

Personal Virtual Networks

Northwestern University

Extensible Middle-Box Service for Mobile Devices

OK2 Consulting

Further Development and Enhancement of HTTP/2 Transport for the Apache HttpClient

Princeton University

NetMicroscope - Passive Network and Application Performance Monitoring

RAND

Economic Importance of Unlicensed Spectrum

Temple University

Remote Smart Health Platform Using Comcast Network

University of Connecticut

Survey of Practical Quantum Key Distribution System

Villanova University

Governing Privacy in Knowledge Commons

Vital Voices Global Partnership

Innovation Grants for Vital Voices Leaders