

# TPAC 2020

## Web And Networks IG

TPAC 2020



Dan DRUTA



Song XU



Sudeep DIVAKARAN





# Our Charter

- ▶ Mission
  - ▶ Explore
    - ▶ solutions for web applications
  - ▶ To leverage
    - ▶ network capabilities
  - ▶ In order to
    - ▶ achieve better performance and resources allocation, both on the device and network.
- ▶ Key Topics
  - ▶ Application hints to and from the network
  - ▶ Exposure of specialized services
  - ▶ Exposure of aggregated web metrics and network emulation browser tools

# Our Tasks

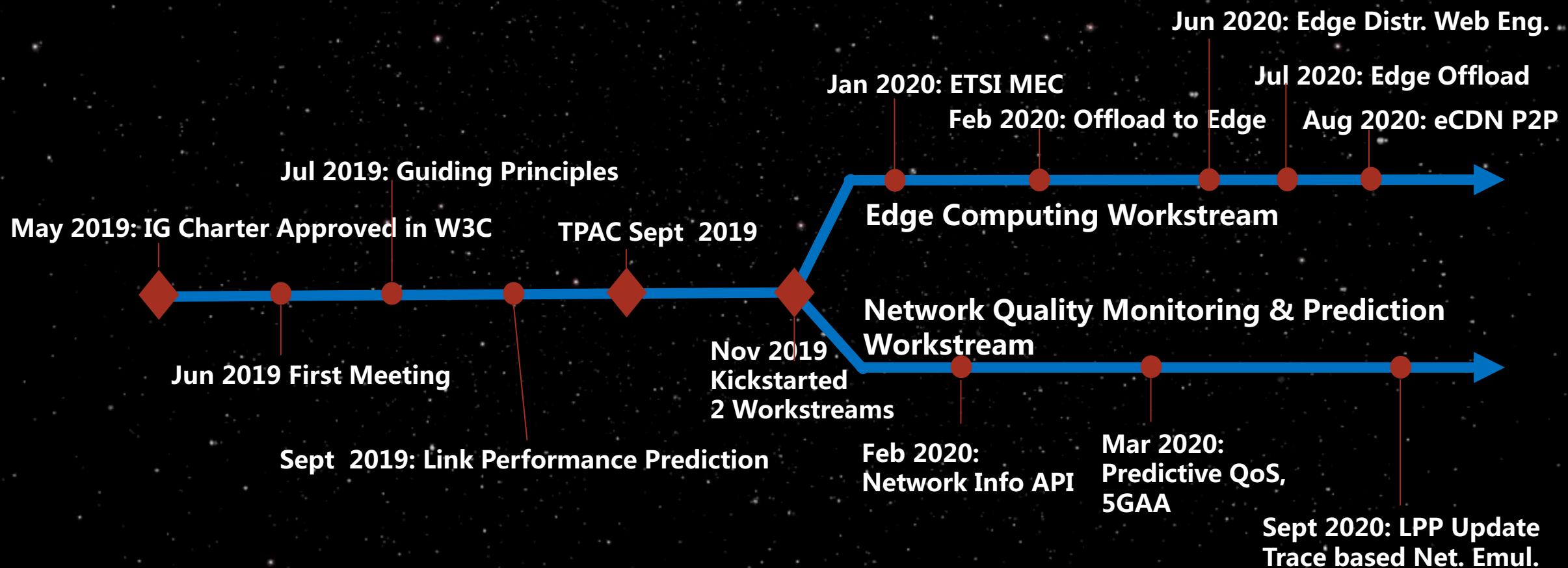


- ▶ Tasks
  - ▶ Identify opportunities and use-cases for network and application collaborations
  - ▶ Liaise and coordinate with relevant networking standards organizations
  - ▶ Propose incubation of new work
  - ▶ Share the latest developments in networking standardization bodies
  
- ▶ Wiki
  - <https://www.w3.org/wiki/Networks>



TPAC 2020

# Progress (Jun 19 – Oct 20)



# Two Workstreams

- ▶ Network Quality Monitoring and Prediction with the goal of improving how Web apps can monitor and prepare for changes in network conditions
  - ▶ Predicted Cellular Network Information
  - ▶ Network Information API
  - ▶ ETSI Mobile Edge Computing API
- ▶ Edge Computing with the objective of understanding the impact of Edge Computing for Web applications and build a roadmap to enable its adoption
  - ▶ Web Work Migration and Edge Worker Concept for offloading compute to Edge
  - ▶ Edge Compute and Capability Discovery



# Demos



Link Performance  
Prediction in Web  
applications



Trace based  
Network  
Emulation toolkit  
for Browsers

And More

**“When something is such a creative medium as the web, the limits to it are our imagination.”**

TPAC 2020

- Sir Tim Berners Lee

The Web And Networks Interest Group envisions unlocking the potential of web by leveraging latest advancements in wireless and wired technologies.



Special thanks to W3C Staff, IG Members & Chairs

TPAC 2020

# Thank You

