Creating Tools to Empower Climate-Smart Communities

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Problem statements

1. Climate-driven impacts cause cascading problems in our built environments and networked, interdependent economy.

2. Poor, under-served, disadvantaged, & communities of color are the most vulnerable populations.

3. Resilience-building is local, so the need for services & funding is highly concurrent (>32K US communities).

4. To date, the pace & scale of climate impacts in the US are outpacing our response.
Primary target users in the ‘resilience ecosystem’

Federal Science & Data Community
Provide research, data, modeling, & assessments of past & future climate

Cloud Host Service Providers
Offer big data hosting, computation, & public browse, formatting, access services

Designers of GIS & Data Analytics
Bring data & analysis tools from federal & local sources together in geospatial context

Last-mile Service Providers
Offer guidance and translation services to help communities & businesses plan & take action

Local Decision Makers
Responsible for local planning & action to protect people and property
Target users’ needs

● Most of our target audiences perceive federal data to be hard to find, and hard to interpret / use.*

● Practitioners and local decision makers want climate change data & tools that are tailored for their purposes.*
  ○ They seek tools to help them produce locally customized maps, visuals, & text.
  ○ They seek experts’ guidance on communicating about the science & data.

*Sources: OMB and 18F reports; firsthand interviews
NOAA / FGDC TOP sprint challenge

1. Create tools to help local governments efficiently identify and select federal agencies’ data that are relevant to their resilience planning purposes.

2. Create tools that enable communities to stand up their own locally customized mapping platform—integrating federal data with their own local data—for resilience planning purposes.
   a. Must be quick, easy, and (hopefully) affordable
Possible roles for FGDC & NGAC in the sprint

NGAC & FGDC members may nominate whole teams or individuals to join a team the developmental sprint.

NGAC may nominate individuals to serve on this team — non-Fed product experts who will consult with Tech Teams.

Assuming prize $ is awarded, NGAC & FGDC may nominate individuals to serve on this committee (no conflict of interest).