

Weather Community of Interest (COI)

Presented to: Fall 2020 FPAW Meeting

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Date: October 14, 2020



**Federal Aviation
Administration**



STRAIGHT FROM STEVE



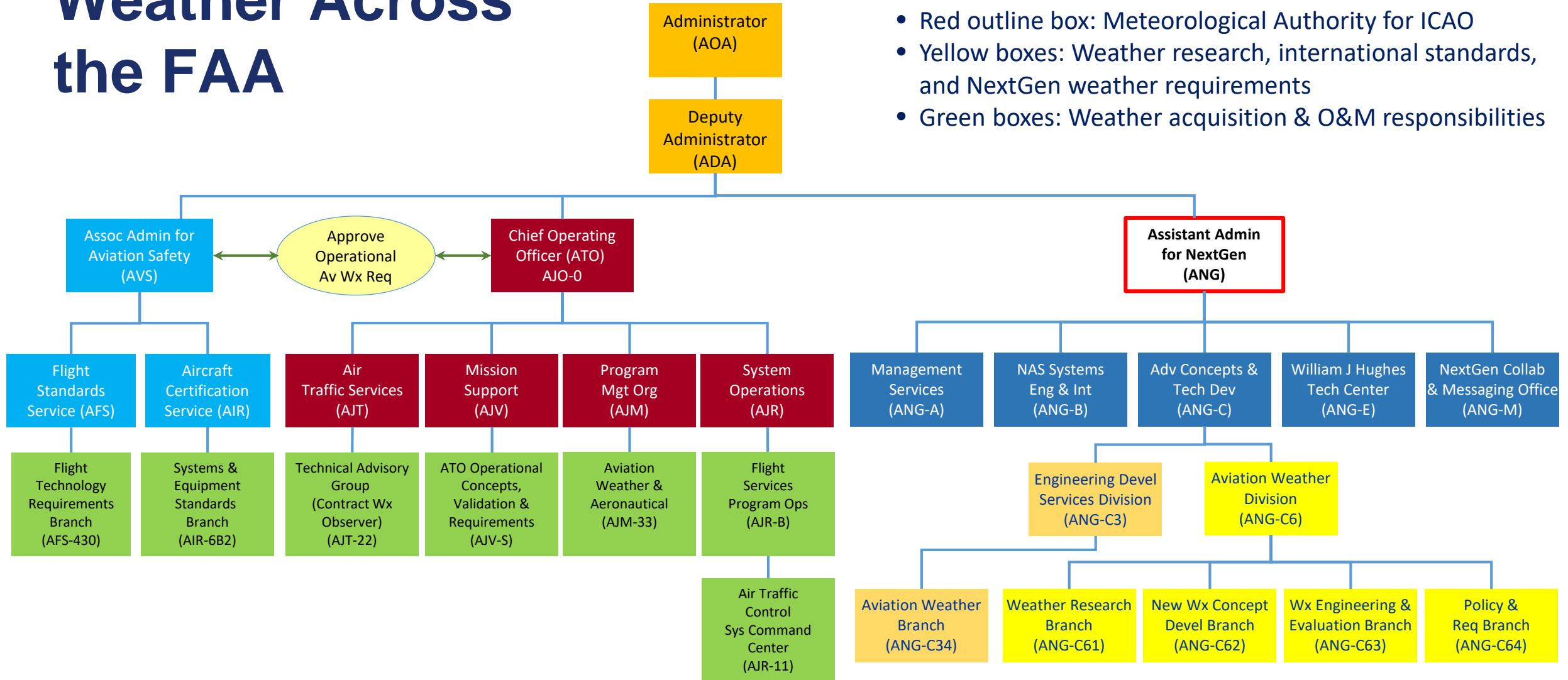
What's the challenge?

Silos of Excellence




Weather Across the FAA

- Red outline box: Meteorological Authority for ICAO
- Yellow boxes: Weather research, international standards, and NextGen weather requirements
- Green boxes: Weather acquisition & O&M responsibilities



Reconstitution

ATO 2015 Safety Report

	Hazard	Example Mitigations
	Weather Dissemination , which stresses the need to solicit from and disseminate to pilots weather information affecting the safety of their flights	Review current weather dissemination procedures for any gaps or opportunities for improvement; deploy new Weather and Radar Processor software to select ARTCCs

Moved to “Continuous Top 5” in 2018 → drew from previous Top 5s, PIREPs made the list and is still there

In 2019, MITRE was engaged to take the lead on reconstituting the Weather COI

TOP 5 MOST WANTED



1. Traffic Advisories/Safety Alerts

Lack of issuance of traffic advisories and/or safety alerts where required



2. Altitude Compliance

Aircraft operating at unexpected or unintended altitude



3. Wrong Surface Landings

Aircraft lands on the wrong runway or on a taxiway



4. Pilot Report (PIREP) Solicitation/Dissemination

Air traffic control did not meet the requirement to solicit and/or disseminate PIREP information



5. Operational Risk Management (Coordination)

NAS status or interruption information was not formally coordinated with impacted parties

https://my.faa.gov/org/linebusiness/ato/safety/aps/programs/top_five.html



Purpose

- Resolve and/or mitigate mission-specific, information-sharing challenges
- Review problems, gaps, & shortfalls
- Increase information-sharing and best practices across FAA programs and organizations
- Leverage weather knowledge through forums to benefit stakeholders
- Foster collaboration within and across weather information users
- Identify and help resolve enterprise weather information issues
- Inform architecture and business practices within weather information domain




Scope

- Promote collaboration, communication, and sharing of weather information among FAA organizations, other federal agencies, industry, and international partners
- Support reconciliation of methods used to access weather information and weather information capabilities/products
- Ensure appropriate access to, and availability & consistency of weather information
- Identify and assimilate operational and business needs for weather information in the NAS
- Steward weather information on behalf of multiple organizations



Authority

- Established through the FAA Enterprise Architecture Board (EAB)
- Receives direction from Enterprise Information Group (EIG)
- Leadership is given sole authority in the execution of its routine business per FAA Order 1375.1E
 - Identify COI membership
 - Set COI schedules, meeting agendas, and priorities
 - Report findings and status to the EIG



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

National Policy

**ORDER
1375.1E**

Effective Date:
11/16/11

SUBJ: Information/Data Management


1. **Purpose of this order:** This order establishes a policy for managing both information and data across the Federal Aviation Administration (FAA).
2. **Who this order affects:** Anyone who develops, manages, or otherwise maintains FAA information and data assets. Managers at all levels must ensure that information systems and services adhere to the information/data management requirements of this order.
3. **Where Can I Find This Order?** This order is located in electronic format on both the FAA's Intranet and Internet Web sites at the following links:
https://employees.faa.gov/tools_resources/orders_notices
http://www.faa.gov/regulations_policies/orders_notices
4. **What This Order Cancels.** FAA Order 1375.1D, Data Management, dated July 25, 2006, is canceled.
5. **Scope:** This order applies to sharable FAA data and information used to perform our mission. Data and information are both enterprise assets that need to be managed like any other asset. Data becomes information when analyzed and combined with other data to extract meaning and provide context to the business. Managing these assets is necessary to create, store, maintain, and securely share accurate quality data and information. However, all Classified National Security Information (CNSI) will be in accordance to FAA Order 1600.2. This document will focus on management of information assets which is crucial to achieving the FAA mission. Analyzing specific aspects of the information content and flow between business functions assists in identifying authoritative data sources.
6. **Explanation of changes:** This revision,
 - a. Changes the FAA Data Governance Board (FDGB) to an Information and Data Advisory Board (IDAB) that supports the FAA Enterprise Architecture Boards (EABs).
 - b. Introduces the concepts of managing information within Communities of Interest (COI's).
 - c. Specifies in detail the new roles and associated responsibilities of information and data management.
 - d. Defines the difference between information and data.

Distribution: A-WXYZ-2; A-FOF-0 (LTD) Initiated By: ARD-1



Governance and Organization

- Chartered under EAB and EIG
- Executive Sponsor
 - Paul Fontaine, NextGen, Portfolio Management & Technology Development Office
- Co-chairs
 - Bill Bauman, NextGen, Aviation Weather Division
 - Alfred Moosakhanian, Program Management Organization
- Secretariat
 - David Strand, MITRE Corp
- Core Team is co-chairs & secretariat plus:
 - Marilyn Pearson, Aviation Safety, Flight Standards
 - Matt Fronzak, MITRE Corp

 **Federal Aviation Administration**

Federal Aviation Administration
Weather Community of Interest

Enterprise Information Management (EIM)

Charter
Weather Community of Interest (COI)
Version 1.0
April 22, 2020

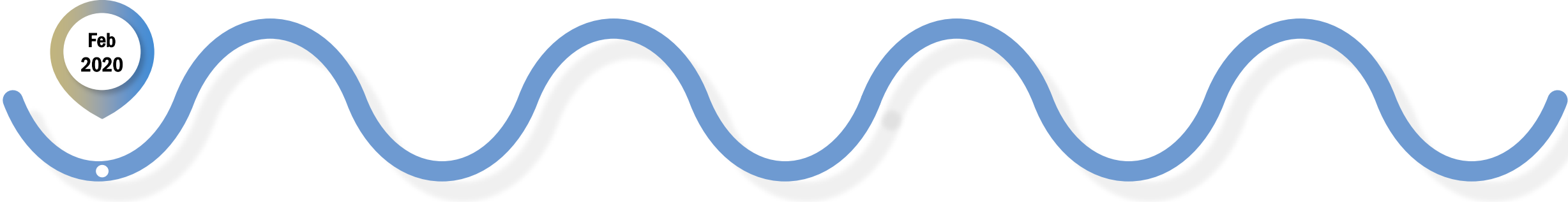
PAUL FONTAINE Digitally signed by PAUL FONTAINE
Date: 2020.05.11 15:52:49Z _____ Date _____
Weather COI Executive Sponsor

William Henry Bauman III Digitally signed by William Henry Bauman III
Date: 2020.05.11 16:02:04 -0400 _____ Date _____
Weather COI Co-Chair

ALFRED MOOSAKHANIAN Digitally signed by ALFRED MOOSAKHANIAN
Date: 2020.05.11 15:17:00 _____ Date _____
Weather COI Co-Chair

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Activities

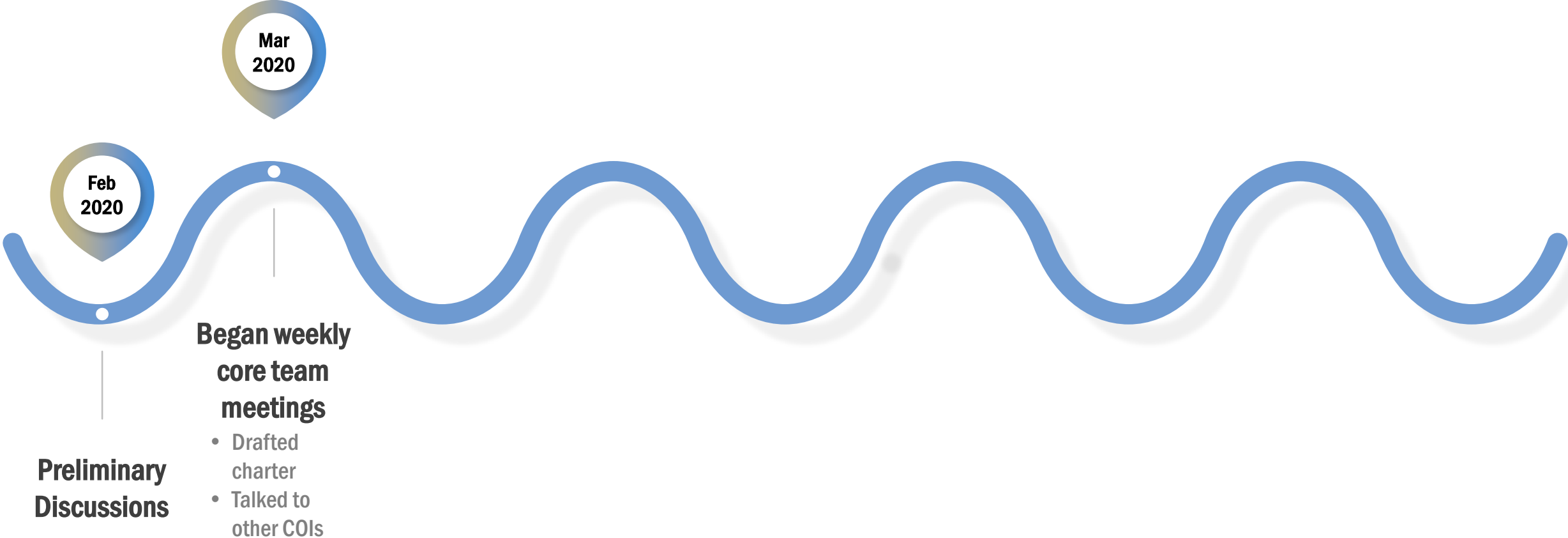


Feb
2020

Preliminary
Discussions



Activities



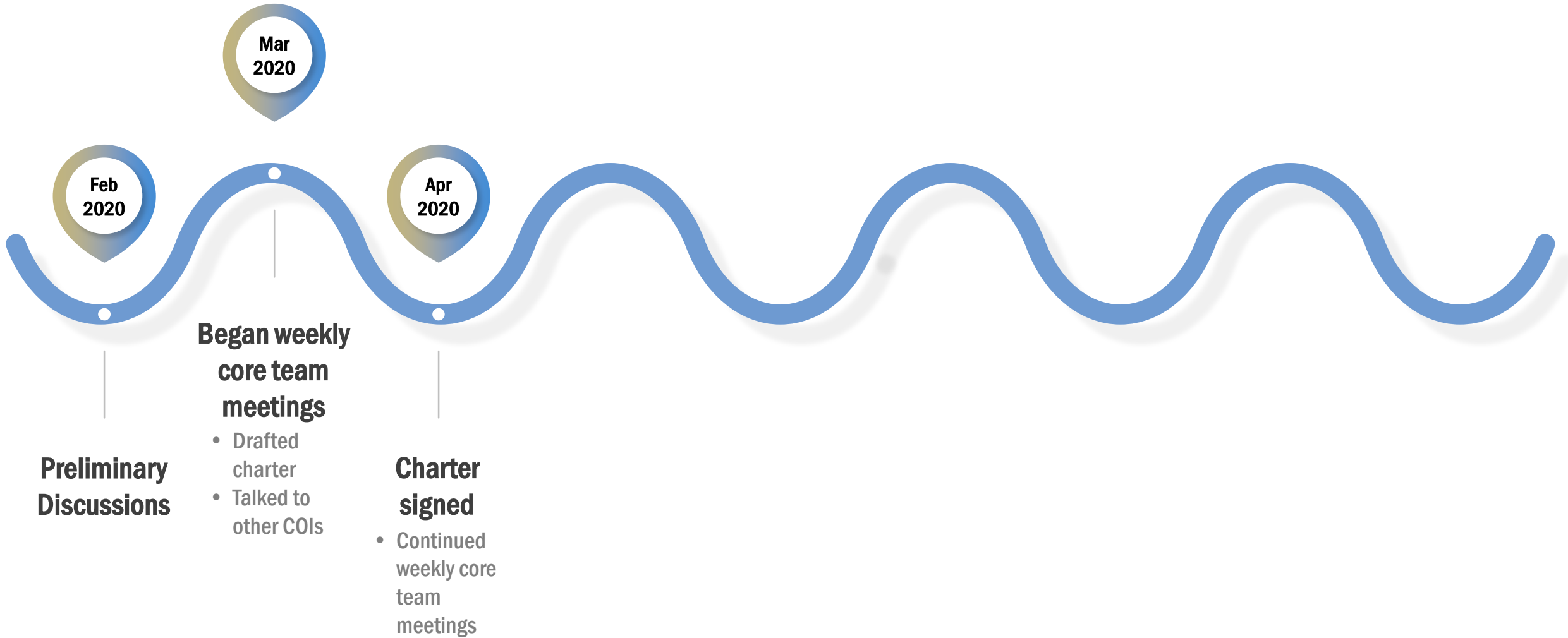
**Preliminary
Discussions**

**Began weekly
core team
meetings**

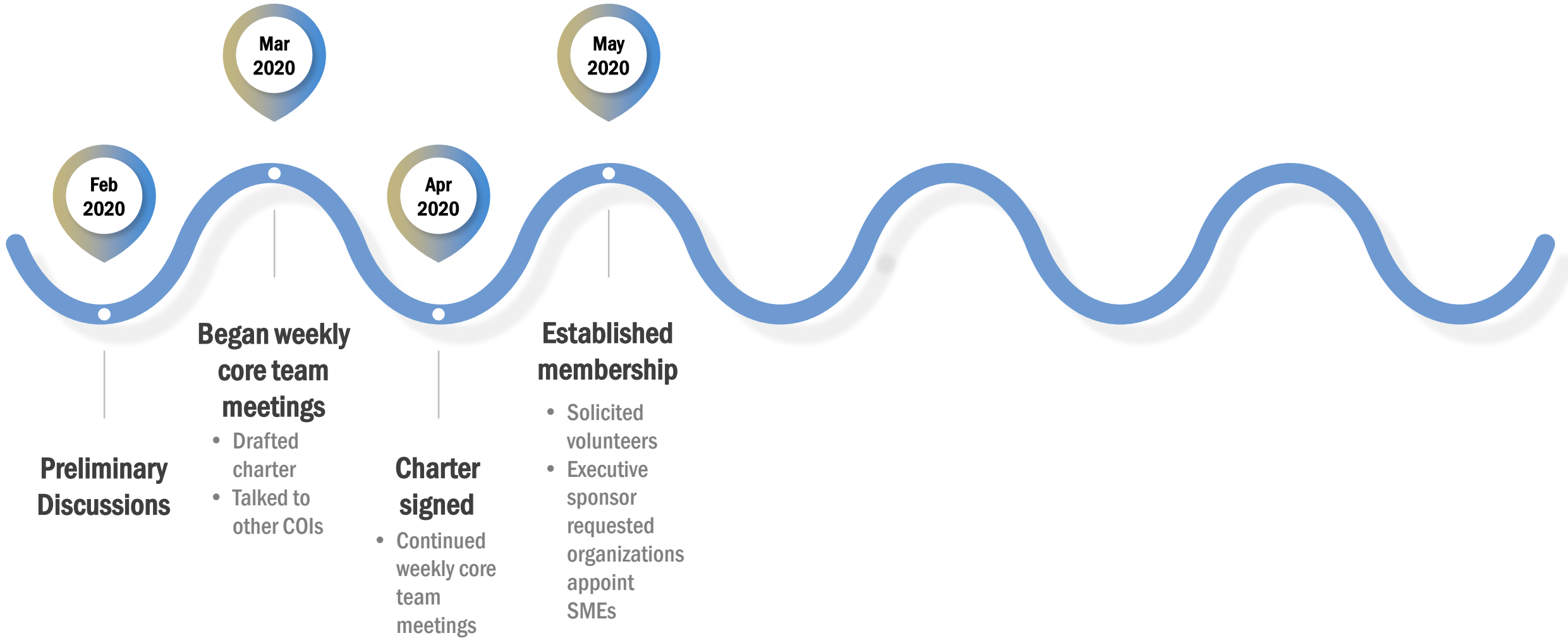
- Drafted charter
- Talked to other COIs



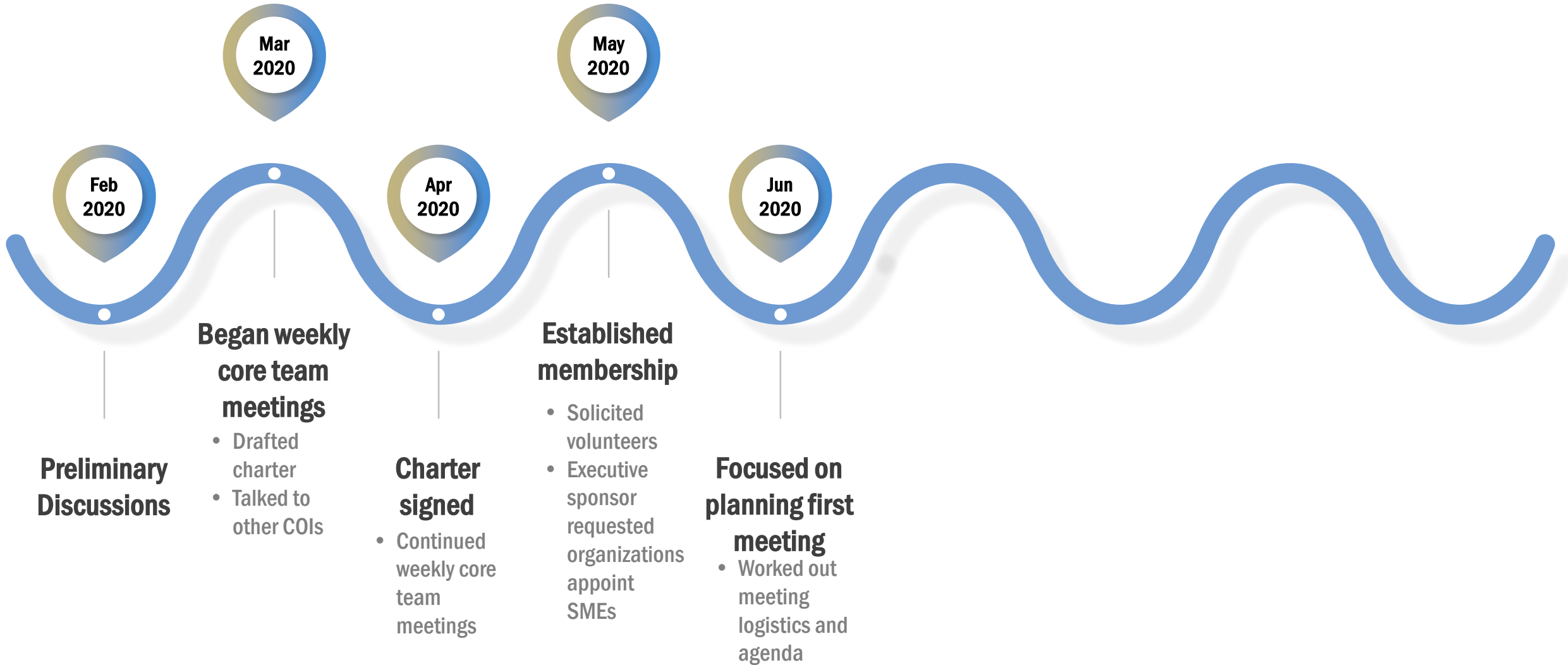
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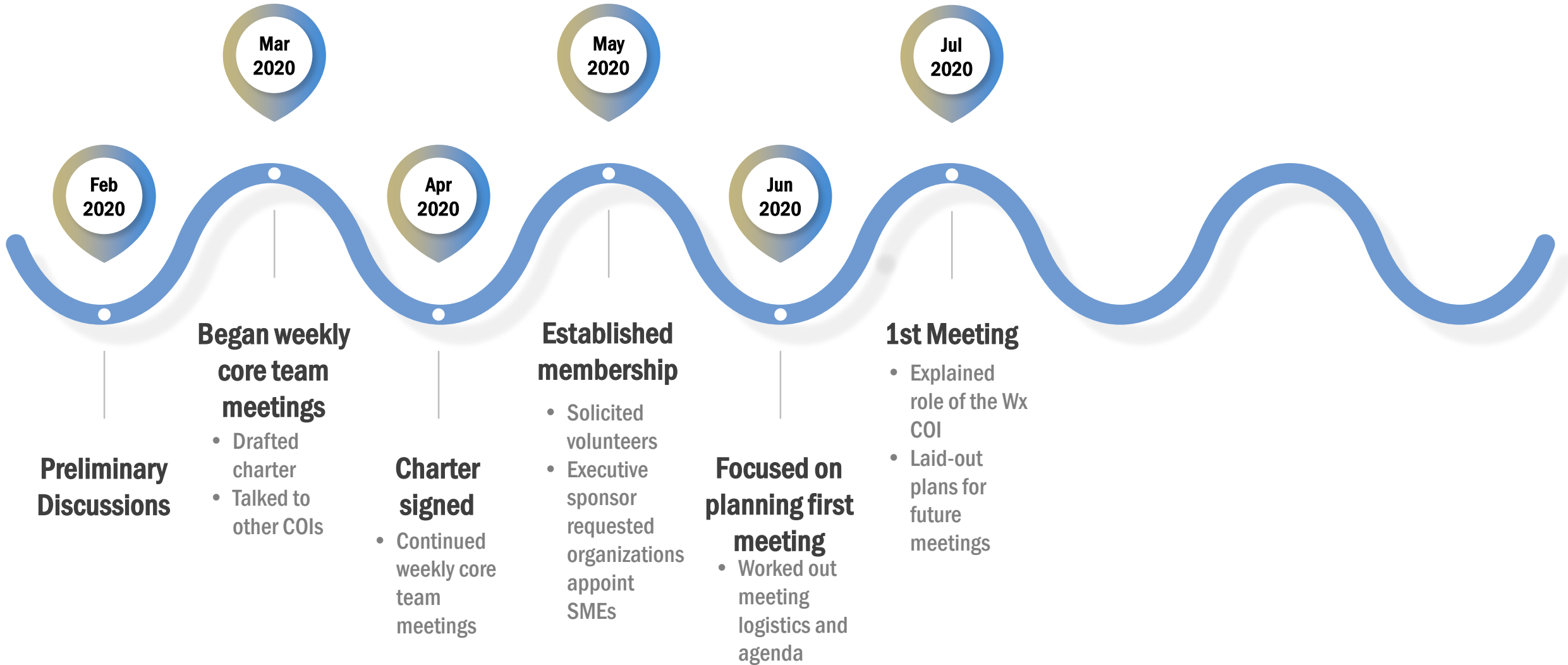
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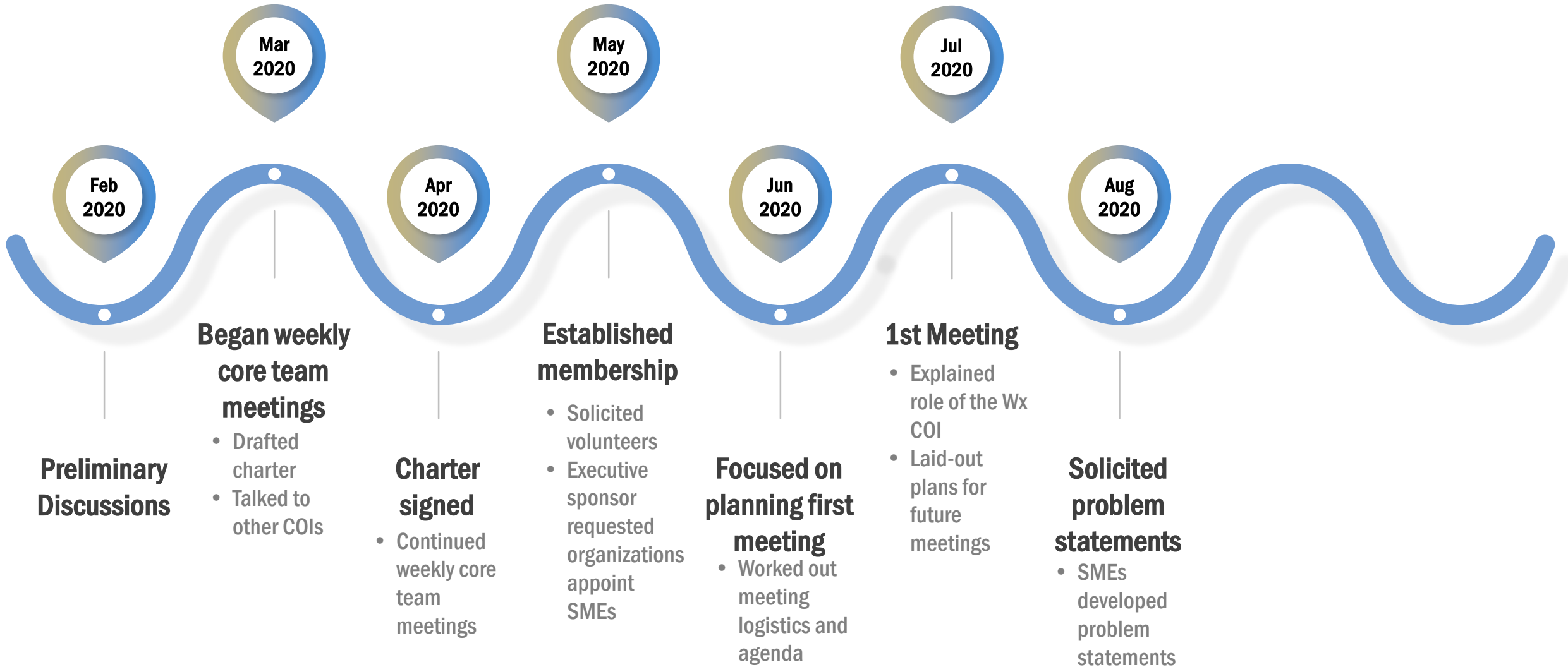
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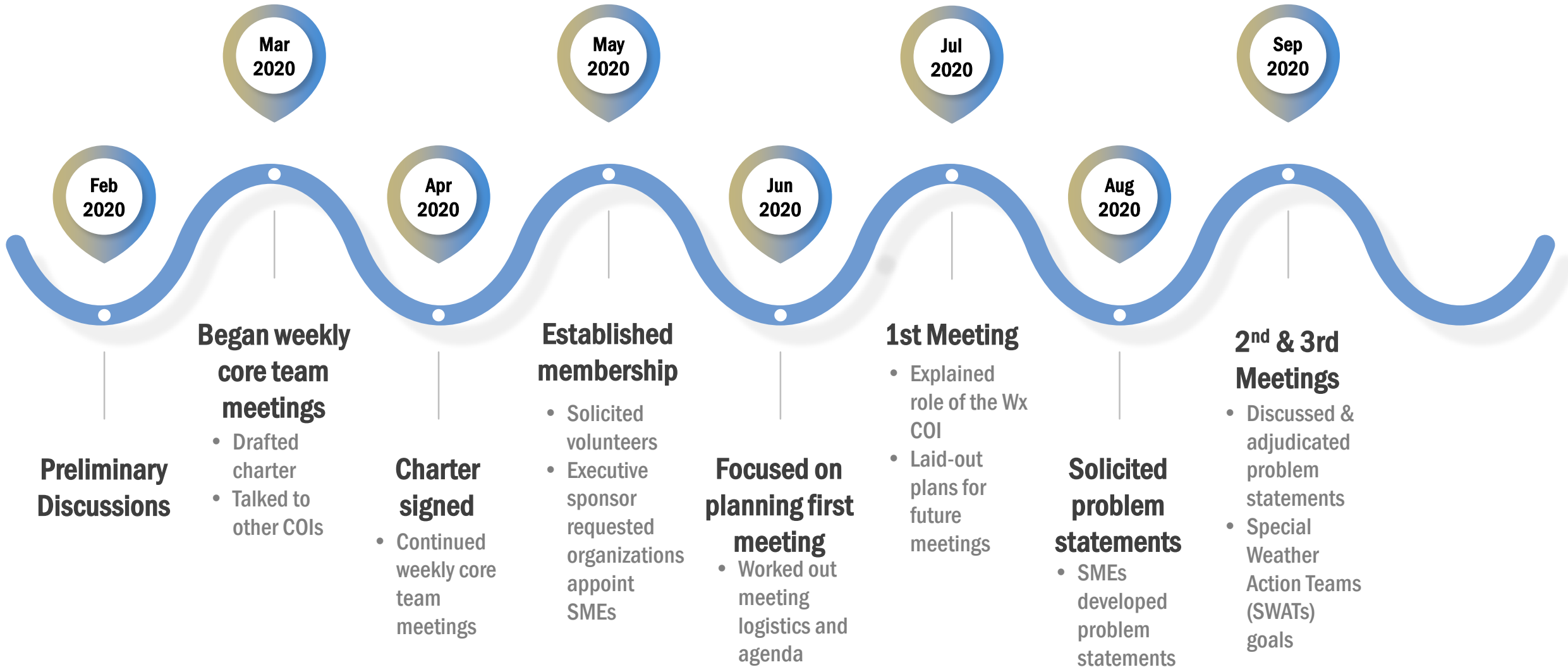
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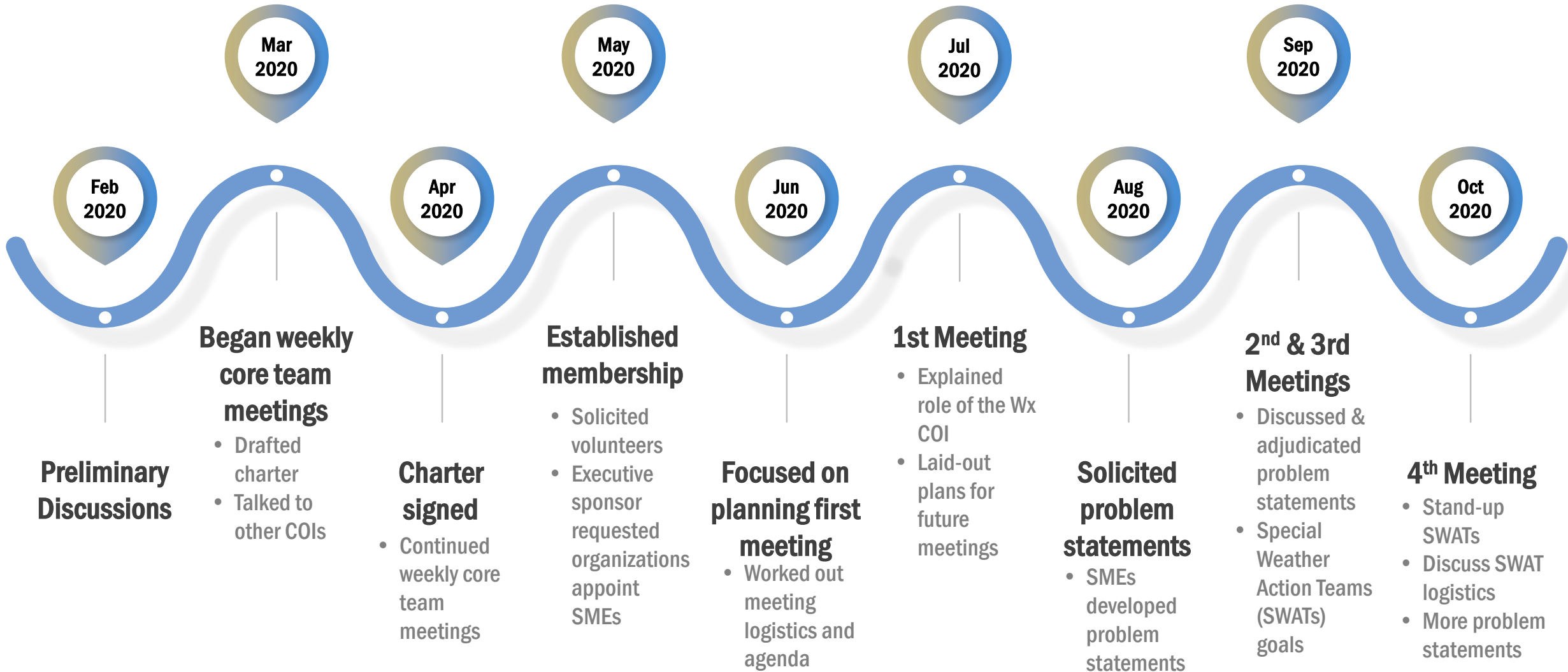
Activities



Activities



Activities



FAA organizational members

Line of Business or Staff Office	Organization Routing Symbol	Organization Name
AJO Air Traffic Organization	AJI	Safety and Technical Training
	AJM	Program Management Organization
	AJR	System Operations Services
	AJT	Air Traffic Services
	AJV	Mission Support Services
	AJW	Technical Operations
ARP Airports	ARP	Office of Airports
AST Commercial Space Transportation	AST	Office of Commercial Space Transportation
AVS Aviation Safety	AAM	Aerospace Medicine
	AFS	Flight Standard Services
	AIR	Aircraft Certification Services
	AOV	Air Traffic Safety Oversight Services
AIT Information & Technology Services	AIT	Information & Technology Services
ANG NextGen	ANG-B	NAS Systems Engineering & Integration
	ANG-C	Portfolio Management & Technology Development
	ANG-E	William J. Hughes Technical Center
	ANG-M	NextGen Collaboration & Messaging
AUS UAS Integration Office	AUS	UAS Integration Office



Two-way Relationship with FPAW

- Weather COI can be a conduit for FPAW issues
 - Would need a government employee “Sponsor” to propose new problem statements to the COI
 - Ensures FPAW issues will be addressed by FAA
- FPAW can be a source of information when requested by the Weather COI or one of its SWATs
 - Use FPAW to solicit feedback from its membership on particular topics



Conclusions

- FAA has multiple organizations that need to interact with weather in some way
- FAA programs are successful but we can leverage information across organizations via the Weather COI
 - Increase information-sharing and best practices across FAA programs and organizations
 - Leverage weather knowledge through forums to benefit stakeholders
 - Foster collaboration within and across weather information users
 - Identify and help resolve enterprise weather information issues
- Interact with external groups like FPAW

