

Unmanned Aircraft Systems (UAS)

UAS Update for Research, Engineering, and Development Advisory Committee (REDAC)

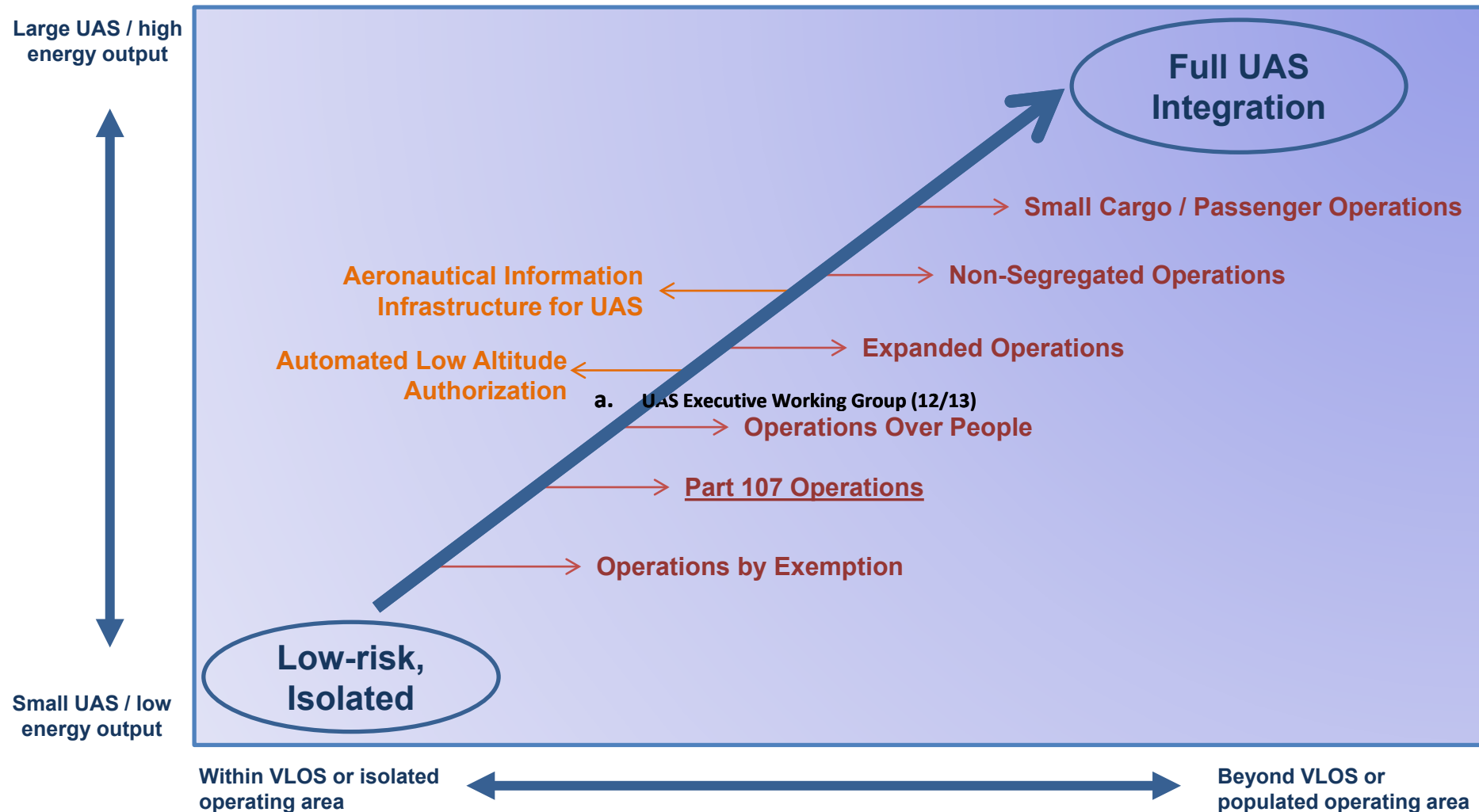
Presented to:

Date: October 2019



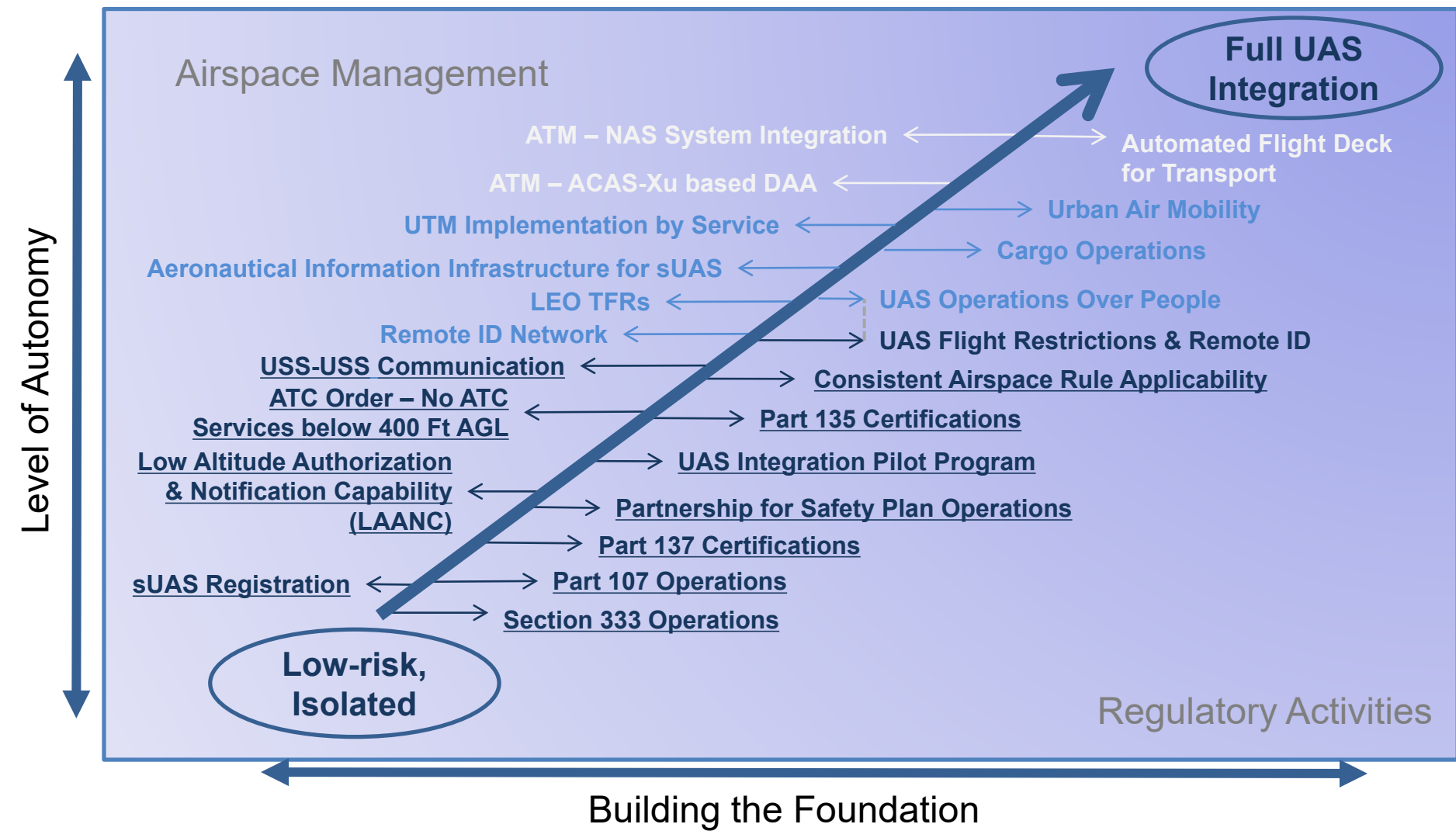


UAS Integration Strategy – 2016





UAS Integration Strategy – 2019



Remote ID Implementation

- **Wing partnered with nine UAS Service Suppliers (USS) and UAS operators to demonstrate the remote identification of drones in San Bruno, CA. The demonstration showed that network remote ID based on the ASTM standard is effective, supports a diverse range of drone operators, and can be implemented today.**
- **Status**
 - 12/20/2019: FAA anticipates publishing the Remote ID notice of proposed rulemaking
- **What we're working on NOW: Internal and External Collaboration**
 - Establishing cross-agency team to run the implementation of Remote ID as a program, determining membership, and defining scope
 - Drafting integrated high-level schedule with milestones
 - Establishing governance



IPP Lead Participant Significant Achievements

Continual Engagement to Emphasize Societal & Community Benefits

BVLOS/Night/Multi

AK – Pipeline
KS – Power Lines
CNO – Power Lines
ND – Power Lines
NV – Combined Flights
CNO – First Tribal Nation as PAO
VA – Power Lines
SD – Law Enforcement Extended Range PAO

14 CFR Part 135 & Exemptions

VA – Package Delivery
CNO – 44807
NC – Medical Sample Delivery

Operations Over People & Moving Vehicles

ND – Football Tailgate
ND – Flood Response
CNO – Festival
NC – Crossing 55mph Highway for Food Delivery
VA – Nationwide Damage Assessment

Other Part 107 Operations

CNO – Feral Hog Trap Baiting
MEM – Aircraft Inspection on Airport
VA – Low Visibility Testing
KS – Airport Infrastructure Inspection



Full Integration

Inform Decision and Rulemaking...

IPP/PSP Waivers and Exemptions

- **Wing (IPP)**
 - Awarded single-pilot part 135 certification in April 2019
 - Working towards standard (multi-pilot) part 135 certification by end of October; expected adjudication of amended exemption request October 11, 2019
 - Announced partnership with FedEx, Walgreens, and Sugar Magnolia (local vendor) as part of package delivery trial operations in Christiansburg, VA
- **Xcel Energy (PSP)**
 - Revised waiver awarded on August 16, 2019 allowing operations over people
 - ~75% complete inspecting 2500 miles of transmission lines
 - Preparing for Strategic meeting with FAA to increase operations by 100% for CY20
 - Significant exposure via Congressional and media releases
- **North Dakota (IPP)**
 - Northern Plains UAS Test Site and Airbus Aerial (on behalf of Xcel Energy) received waiver to operate BVLOS without VOs in the city of Grand Forks
- **Amazon (PSP)**
 - Part 135 Air Carrier Certification anticipated in January 2020
- **UPS/Matternet (IPP)**
 - Issued the first Standard part 135 Air Carrier Certificate for Unmanned Aircraft operations and conducted the first Air Carrier flight with a UAS on September 27, 2019
 - Operating BVLOS with a Visual Observer
 - On demand delivery completed in 2 minutes and 30 seconds for each delivery

National Drone Safety Awareness Week: November 4-10, 2019



- The goal is to educate the public about drone safety by highlighting how key sectors of the drone community are engaging with the public and spreading awareness throughout the U.S.
- The webpage with downloadable content, Stakeholder Playbook, and Voluntary Tracking Tool launched in the past few weeks
- FAA started sending out communications to the public on 9/23/19
- Partners are beginning to plan their events and support, including CTA, AMA, UAST, and AUVSI

Questions?



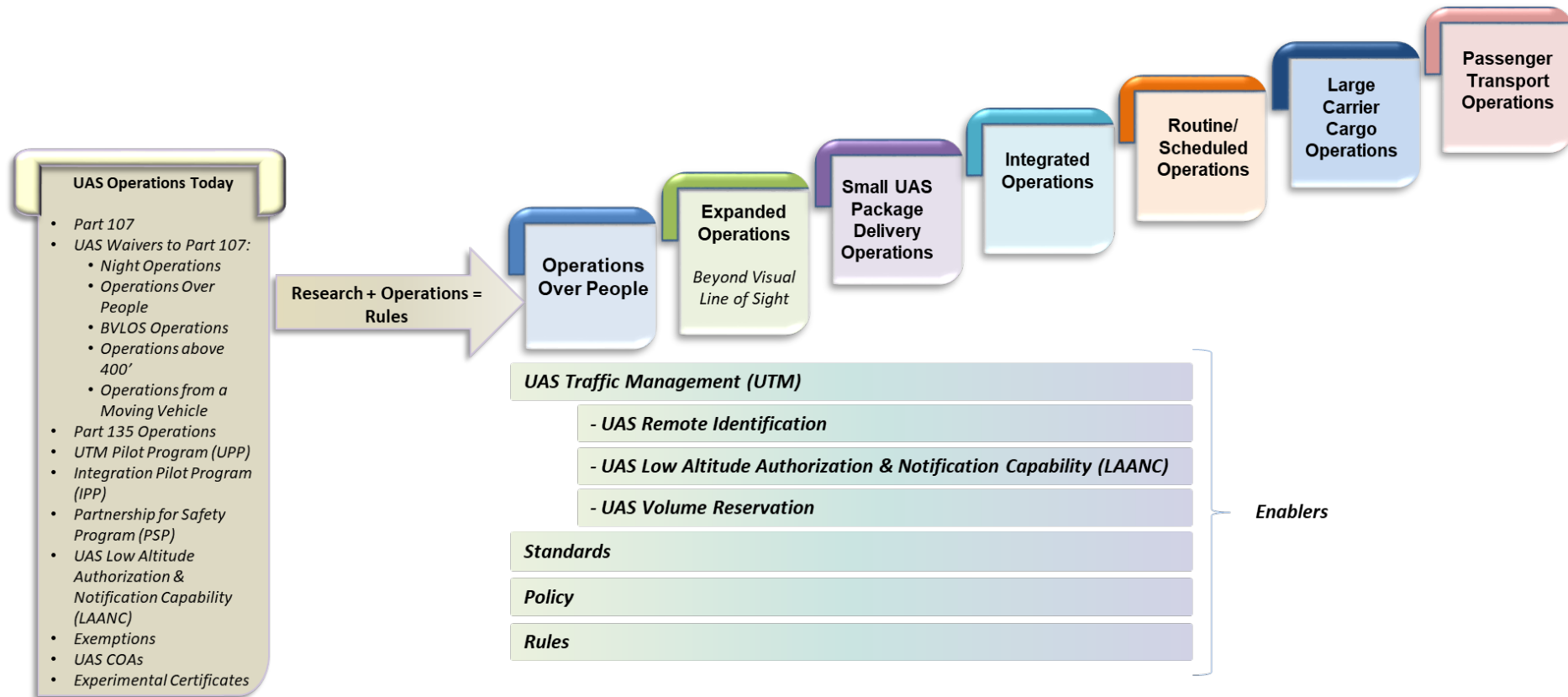
www.faa.gov/uas

FAA UAS INTEGRATION RESEARCH PLANNING

Sabrina Saunders-Hodge
Director, UAS Research Division



Research Informs Operational Capabilities Towards Full UAS Integration



UAS Research Partners



Alignment of UAS Research

