



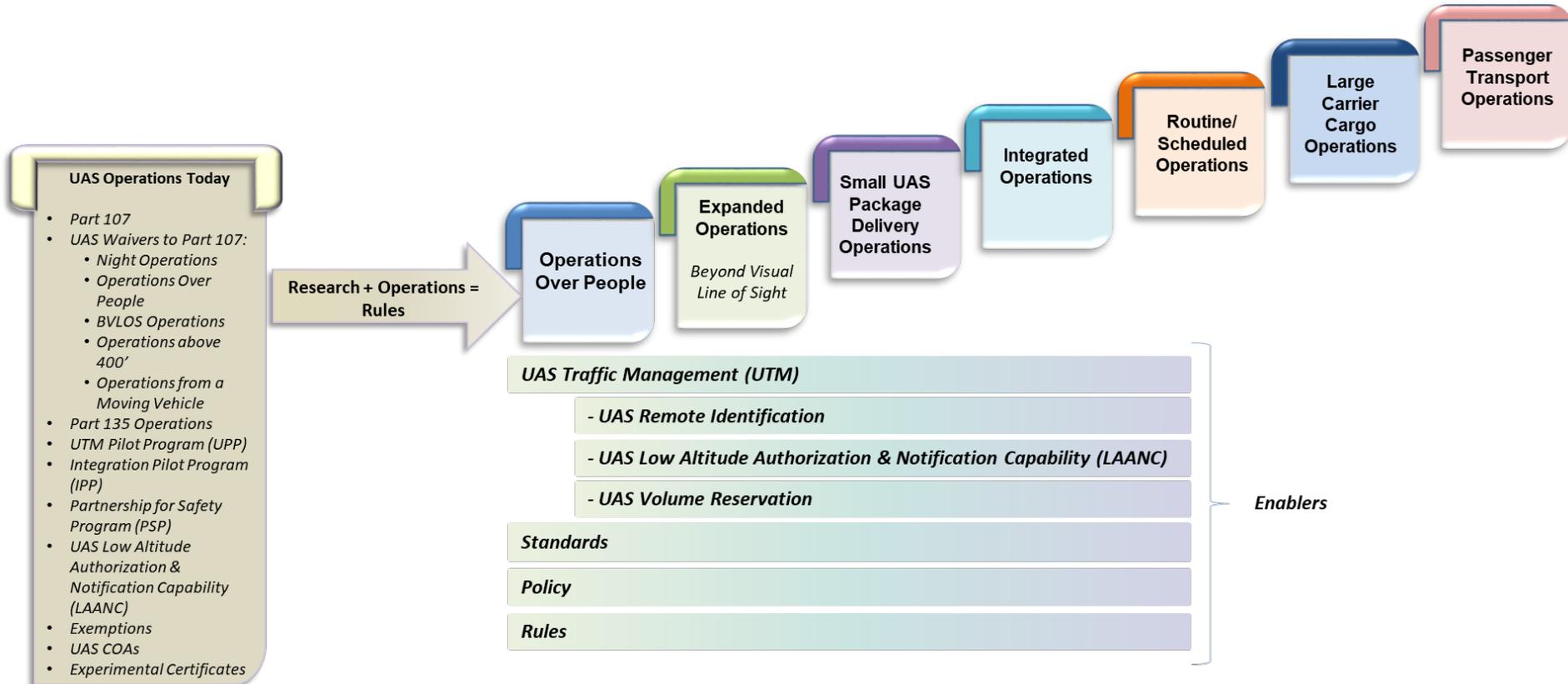
Next**GEN**

ANG-C2 UAS Research Execution Process

Presented February 13, 2021
Bill Oehlschlager, ANG-C21



UAS Integration Operational Capabilities



Expanded Operations



Expanded Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.7 (COE-A34)	Safety Case Methodology	William Oehlschlager
A11L.UAS.22 (COE-A18)	BVLOS – Separation Requirements and Testing	William Oehlschlager
A11L.UAS.23	C2 Link	Melanie Flavin
A11L.UAS.53 (COE – A29)	STEM III	Richard Lin
A11L.UAS.55 (COE – A23)	Low Altitude DAA	Zachery King
A11L.UAS.55 (COE – A40)	Remote ID	Zachery King



Expanded Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.68 (COE – A28)	Disaster Prep and Emergency Response Phase I	Zachery King
A11L.UAS.69 (COE – A21)	Expanded and Non-Segregated Ops	Phillip Maloney
A11L.UAS.70 (COE – A33)	SARP Co-Chair	William Oehlschlager
A11L.UAS.71 (COE – A27)	Risk-Based Thresholds	Richard Lin
A11L.UAS.73 (COE – A25)	Waiver Case Study Review	Zachery King
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin



Expanded Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.86 (COE – A44)	Mitigating GPS and ADS-B Risk	Deepak Chauhan
A11L.UAS.87 (COE – A45)	Shielded UAS Operations	Phil Maloney
A11L.UAS.88 (COE – A46)	sUAS Visual Operation Standards	William Oehlschlager



Small UAS Package Delivery Operations



sUAS Package Delivery Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.44	UAS Air Carrier Ops	Richard Lin
A11L.UAS.52 (COE – A22)	eCommerce	Richard Lin
A11L.UAS.61	Automation and Autonomy	Phillip Maloney
A11L.UAS.74 (COE – A26)	Pilot Proficiency Requirements	Zachery King
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin



Integrated Operations



Integrated Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.2	Multi-Sensor Data Fusion Strategies	Deepak Chauhan
A11L.UAS.23	C2 Link	Melanie Flavin
A11L.UAS.31	High Visual Contrast	Melanie Flavin
A11L.UAS.47	Flight Path Display	Melanie Flavin
A11L.UAS.50 (COE – A19)	Flight Test Data Collection	Zachery King
A11L.UAS.50 (COE – A24)	Safety Case Development	Zachery King



Integrated Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.58 (COE – A17)	Airborne Collision: Engine Ingestion	Melanie Flavin
A11L.UAS.60 (COE – A16)	Airborne Collision: Structural Impact	Melanie Flavin
A11L.UAS.69 (COE – A21)	Expanded and Non-Segregated Ops	Phillip Maloney
A11L.UAS.72 (COE – A31)	Risks Around Airports	Richard Lin
A11L.UAS.75 (COE – A35)	Wake Turbulence	Zachery King
A11L.UAS.77 (COE – A37)	Standards Tracking	Richard Lin



Integrated Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin
A11L.UAS.79	Section 383 UAS Detection at Airports	Richard Lin
A11L.UAS.85 (COE – A43)	Turbofan Engine Live Test Oversight	William Oehlschlager
A11L.UAS.85	High-Bypass Turbofan Engine Live Test	William Oehlschlager
A11L.UAS.89 (COE – A47)	sUAS Mid-Air Likelihood	Deepak Chauhan
A11L.UAS.90 (COE – A48)	ASH Counter-UAS	Richard Lin



Routine/Scheduled Operations



Routine/Scheduled Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.43 (COE – A49)	ASIAS Phase II	Phil Maloney
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin



Large Carrier Cargo Operations



Large Carrier Cargo Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin
A11L.UAS.84 (COE – A42)	UAS Cargo Operations	Hector Rea



Passenger Transport Operations



Passenger Transport Operations Research Projects (Active)

Control Account Number	Research Project	Program Manager
A11L.UAS.76 (COE – A35)	Urban Air Mobility (UAM)	Richard Lin
A11L.UAS.78 (COE – A38)	UAS Cyber Security and Safety Lit Review	Richard Lin
A11L.UAS.83 (COE – A41)	Unmanned Transport Operations	Hector Rea



Up Coming Research Project



FY21 Package 2: In Grant Review

Control Account Number	Research Project	Program Manager
A11L.UAS.91 (COE – A50)	sUAS Traffic Analysis	William Oehlschlager
A11L.UAS.92 (COE – A51)	Best Practices for Automated Systems	Richard Lin
A11L.UAS.68 (COE – A52)	Disaster Prep and Emergency Respond – Phase II	Zachery King



FY21 Package 3: Reviewing Proposals

Control Account Number	Research Project	Program Manager
A11L.UAS.93 (COE – A53)	Materials and Composites for UAS	William Oehlschlager
A11L.UAS.97 (COE – A54)	UAS Right-of-Way Rules	Phil Maloney
A11L.UAS.101 (COE – A55)	Flight Recorder Requirements for UAS	William Oehlschlager



FY22 Package 1: Initial Planning

Control Account Number	Research Project	Program Manager
A11L.UAS.77	Standards Tracking Phase II	Richard Lin
A11L.UAS.95	UAS Cyber Security Oversight	William Oehlschlager
A11L.UAS.96	Evaluate UAS Electromagnetic Compatibility	William Oehlschlager
A11L.UAS.100	Investigate DAA Track Classification and Filtering	William Oehlschlager

