

June 2021 NFARC/ARES Meeting  
Discussion of DRAFT EOP/IPP

8:05-8:20

## Emergency Ops Plan (EOC-related)

- Hazard/Threat Analysis
  - From a volunteer communications perspective
- 1 - Hurricane/Tropical cyclone
- 2 - Wildfire (can take out towers, fiber)
- 3 - Cyber/Infrastructure Attack (GRUCom etc)
- 4 - Mass Civil Unrest (potential for comms attack)
- 5 - EMP/CME

# Mission Essential Functions

- Things the authorities might ask us to pursue in a disaster.
  - Alachua Cgt EOC augmentation (typical)
  - Fire/LE Augmentation (rare, Fugate once did it)
  - Shelter Augmentation (typical, much stronger now)
  - Other Agencies (rare...)

8:20-8:30

## Integrated Preparedness Plan (IPP)

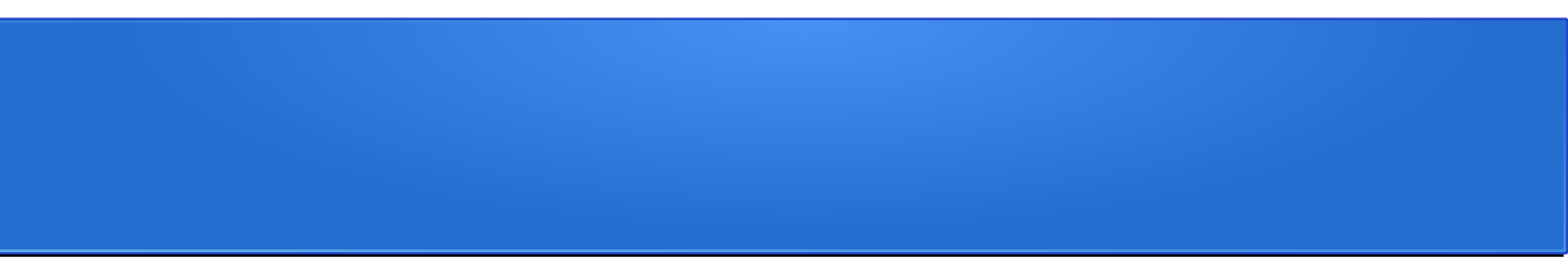
- Involves Planning, Training, Equipping, Exercising
- Improve CAPABILITIES related to our missions / threats
-

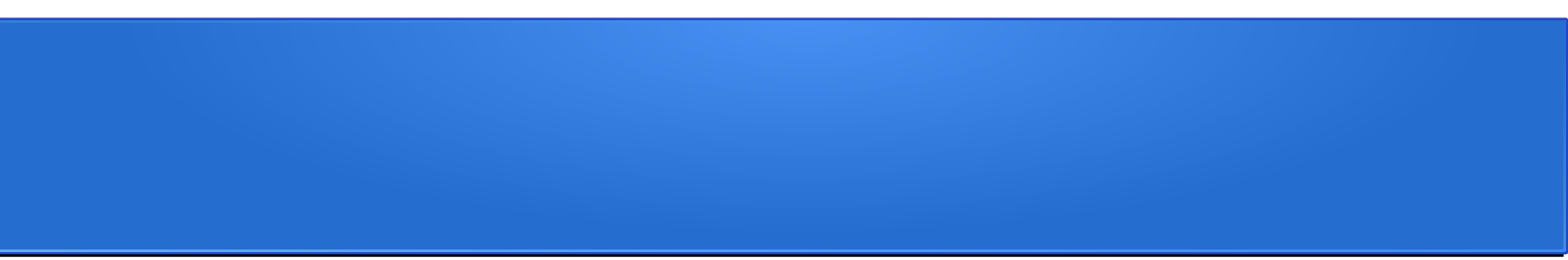
# CAPABILITIES DISCUSSION

- WELCOME YOUR INPUT – This is the best that I/we could come up with....
- Probably the best way is for **anyone to interrupt and comment on any proposed capability growth** that they don't understand or question....so we get input from as many as wish!

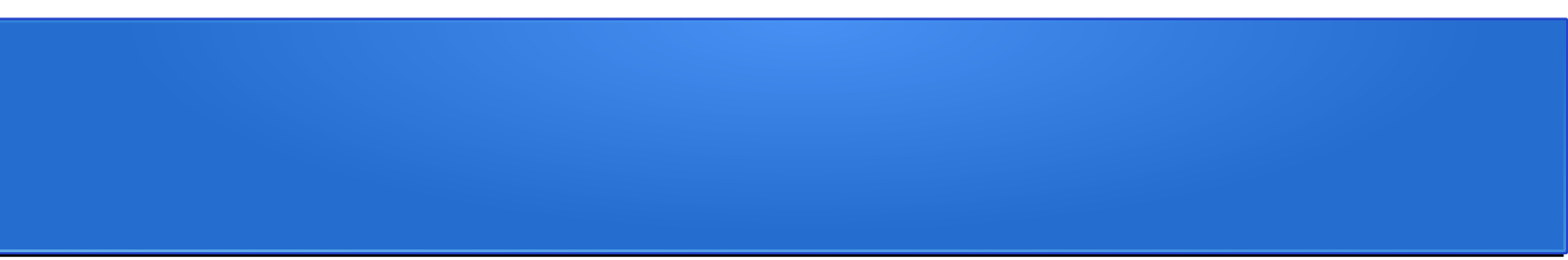
# Big Overlap in Capabilities / Applications to Missions

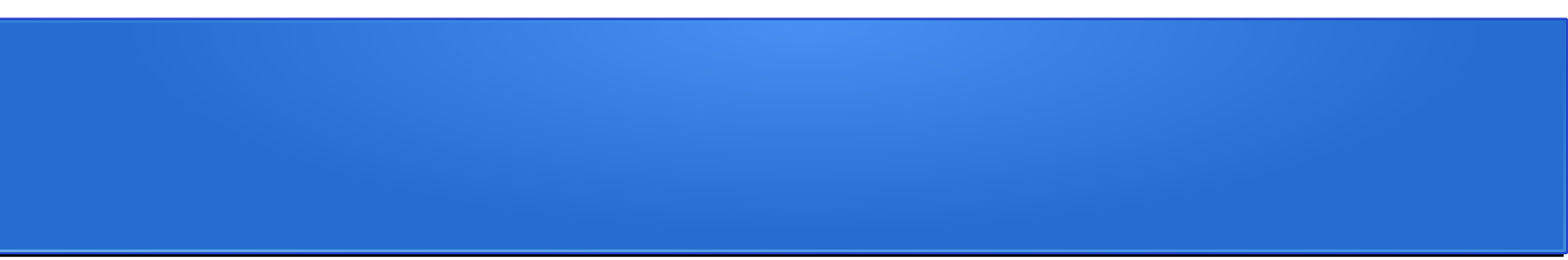
- Volunteers – increase deployable from 6-10 to 22
- Shelters – advocate for next group getting antennas
- GoBoxes – advocate for next group of radios
- HF Radios – increase from 2 to 8 deployable HF vols.
- Solar – Increase local groups with significant solar
- Resilient Transport: Increased vols. With 100 miles range even with local fuel drought. 5- → 15+
- Typing: typed radio vol classification

- 
- Alerting – alternate method than telephones
  - Repeater survey: characterize suitability for public service usage
  - MARC: increase 2- → 10 trained volunteers
  - EOC Portable: go-box some of their gear
  - Tall Places: identify five good emergency antenna locations
  - Adhoc Repeaters: Increase 1- → 3

- 
- Private loanable VHF/UHF transceivers. Identify/increase estimate 10- → 50
  - SHARES VHF: encryptable VHF comms to EOC
  - Encrypted loaners: cache of radios with optional cheap commercial encryption (see: <https://quality2wayradios.com/store/encryption-basics-help> (If reasonable choice for ham radio, perhaps we can encourage purchasing dual-purpose radios))
  - Lockout – ways to lock out malicious interference when operating in disaster modes?
  - State Data comms: Increase vols. Able to digital connect to state 2 - → 5 or 10



- 
- Resilient homes: Increase vols with backup power suff for modest AC to 10-20
  - Neighborhood hams: increase to 25+ volunteers capable of >4 weeks service (power, food, water)
  - Space Weather: Increased awareness on local nets, alerting system.
  - Banking: characterize their comms requirements
  - Simplex Plan: Test protocols for simplex alerting/response
  -

- 
- Sustainability: All badged vols. With 2 weeks (FEMA) food /water / power
  - Vol Family Safety: Plan to watch over families of vols?
  - Broadcast: Identify/quantify possible techniques for authorities to reach citizenry after EMP.

Comment?

# 3-year Plan, A-J

Item	2021				2022				2023			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A. Badged EM Volunteers	Train / Encourage				Badge New Group				Badge New Group			
B. Shelters	Advocate				Install				Test			
C. Shelter Radio Go-box	Advocate				Purchase / Complete				Test			
D. HF Radio	Add 1				Add 2 more				Add 2 more			
E. Solar	Advocate / Educate											
F. Transportation					Encourage Fuel Avail.		Survey Group					
G. Typing	Write suggested typing			Advocate for its adoption locally / state			Review feedback					
H. Alerting			Provide Local EOC Training			Test Local Alerting						
I. Repeater Survey	Explain concept of assisting authorities				Compile survey of possible useful repeaters							
J. Ad-Hoc Repeaters					Develop general design, estimate costs.				Encourage / Advocate for creation			

# 3 Year Plan K-T

K. Cache Transceivers			Survey existing private caches	Develop unified listing, assess suitability.					
L. MARC			Advocate for training course	Encourage volunteers to take training					
M Portable EOC Comms			Develop physical structures (go-boxes) to hold radios	Test moving equipment to back loading dock.					
N Tall Places			Ask members to report possible locations.	List possibilities and investigate the most promising					
O. SHARES VHF		Gain more Information	Acquire Licensure	Begin implementation					
P. Encryption		Evaluate market options	Notify members of commercial offerings	Compile listings.					
Q. Lockout				Investigate possibility	Implement Trial Solution			Evaluate	
R. State Data Comms			Training Program for Local Members		Local Drills, Exercises				
S. Resilient Homes			Survey	Discuss, Encourage	Implement	Evaluate			
T. Neigh. Vol. Hardening				Survey	Discuss, Encourage	Implement	Evaluate		

# 3-Year Plan, U-Z

U. Space WX Awareness		Add link to web page		Incorporate in training programs							
V. Banking				Investigate banking systems							
W. Simplex Plan				Develop plan	Test initial plan						
X. Sustainability		Encourage growth in membership in sustainability.			Survey membership to assess successful impact						
Y. Vol. Fam. Safety			Discuss topic, seek suggestions	Develop initial response plan.	Test initial response plan						
Z. Broadcast				Investigate national efforts			Propose solutions.				

# Our normal training....

Baseline Volunteer Preparation	
1 FCC License Training & Testing	<----Ongoing Training---->
2 Voice message transaction	<----Ongoing Training---->
3. Data message transaction	<----Ongoing Training---->
4. Electronics training	<----Ongoing Training---->
5. Propagation training	<----Ongoing Training---->
6. Antenna Training	<----Ongoing Training---->