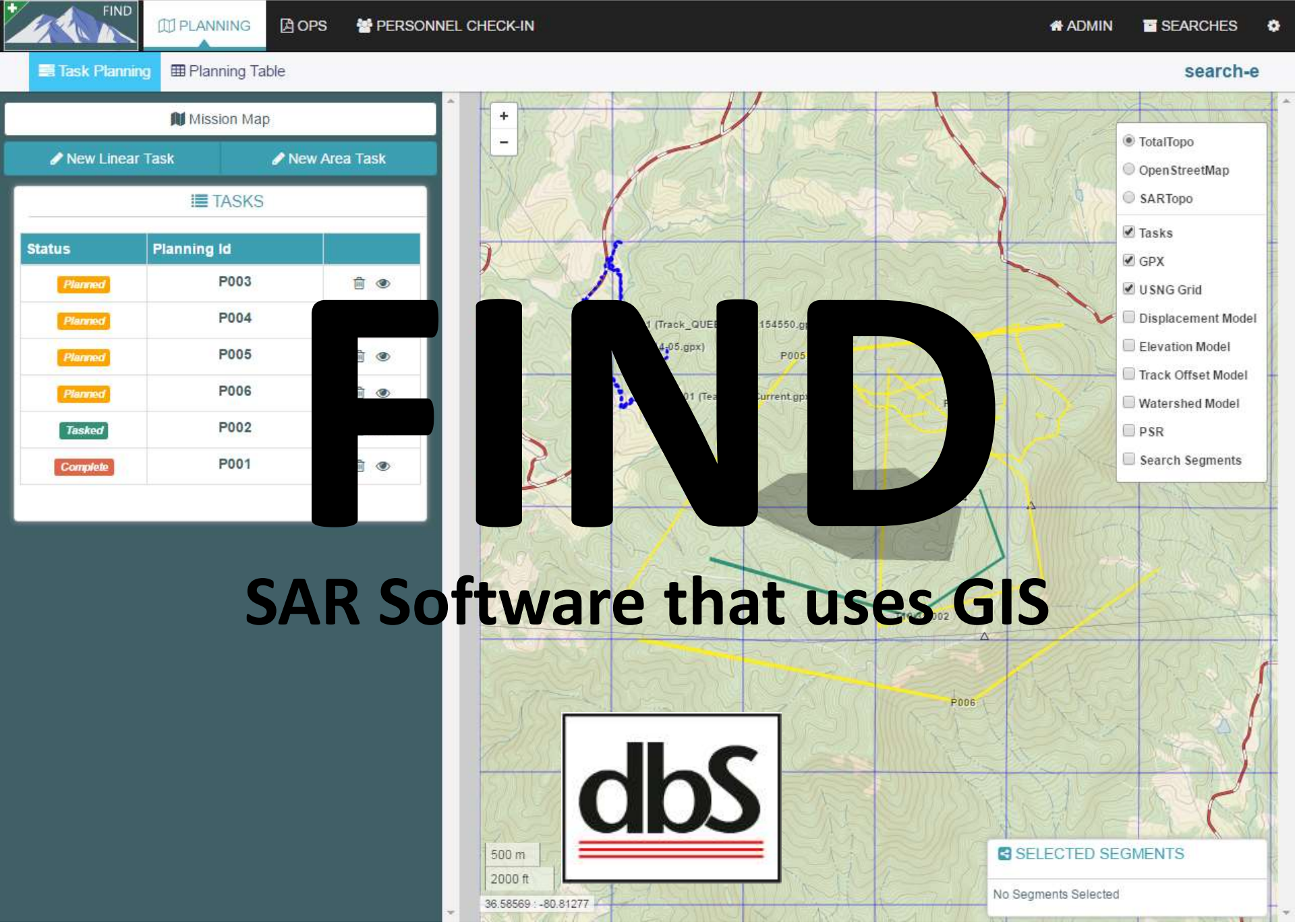
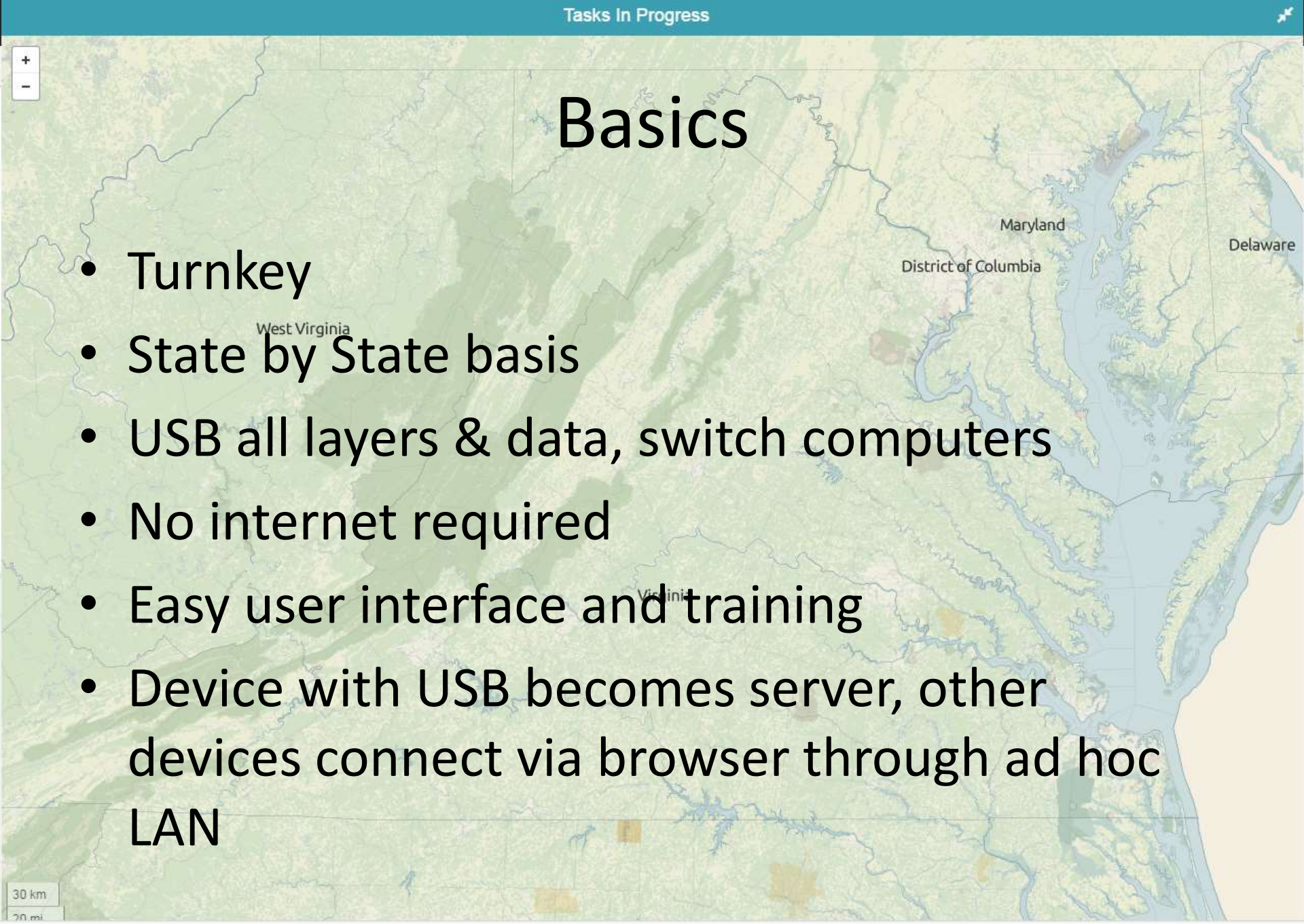
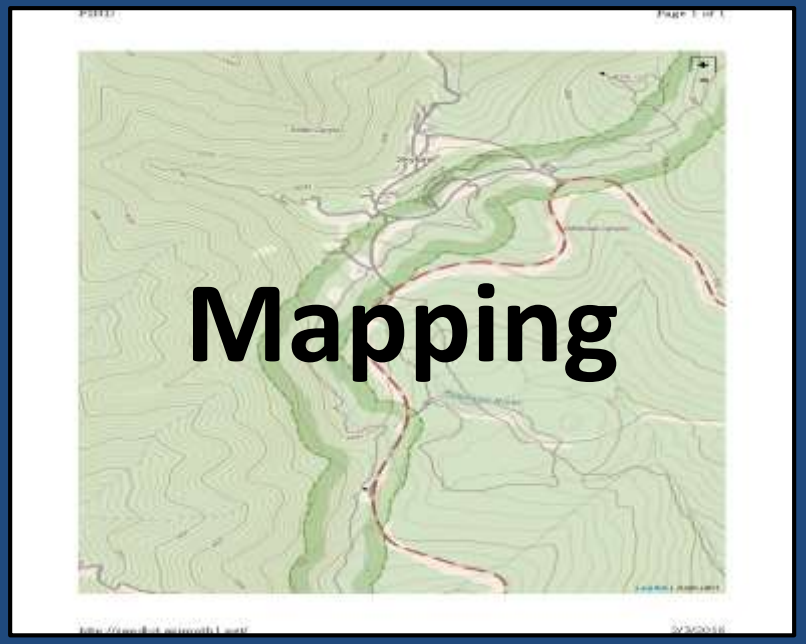

FIND
PLANNING
OPS
PERSONNEL CHECK-IN
ADMIN
SEARCHES
Task Planning
Planning Table
search-e
Mission Map
New Linear Task
New Area Task
TASKS
Status
Planning Id
Planned
P003
Planned
P004
Planned
P005
Planned
P006
Tasked
P002
Complete
P001
TotalTopo
OpenStreetMap
SARTopo
Tasks
GPX
USNG Grid
Displacement Model
Elevation Model
Track Offset Model
Watershed Model
PSR
Search Segments
P005
P006
dbS
500 m
2000 ft
36.58569 : -80.81277
SELECTED SEGMENTS
No Segments Selected
FIND
SAR Software that uses GIS

This project is supported with funding by the Science and Technology Directorate of the United States Department of Homeland Security



Basics

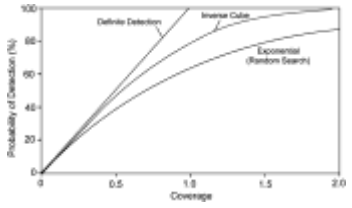
- Turnkey
- State by State basis
- USB all layers & data, switch computers
- No internet required
- Easy user interface and training
- Device with USB becomes server, other devices connect via browser through ad hoc LAN

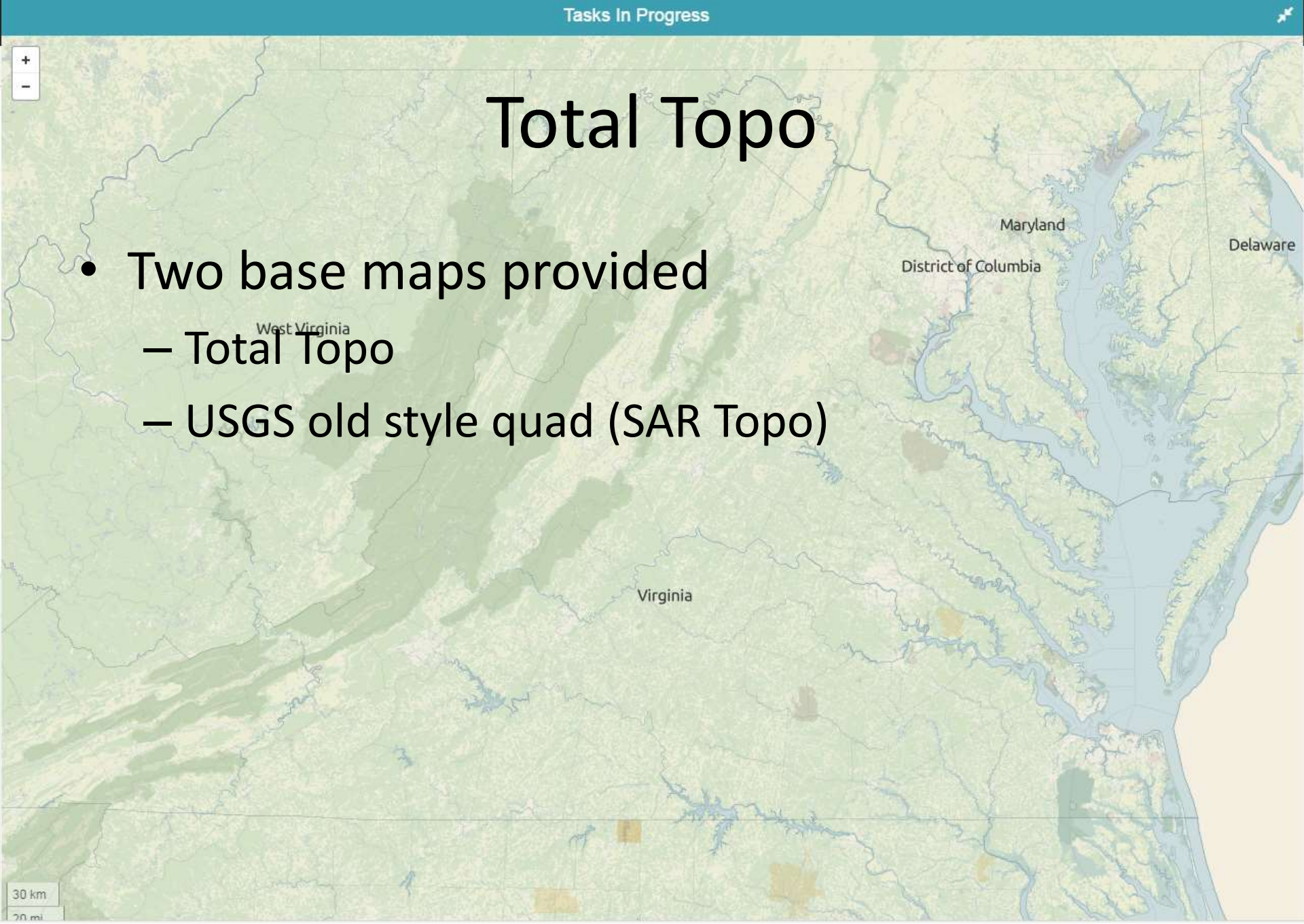


ISRID

PSR = V*W*(POA - POS)/A

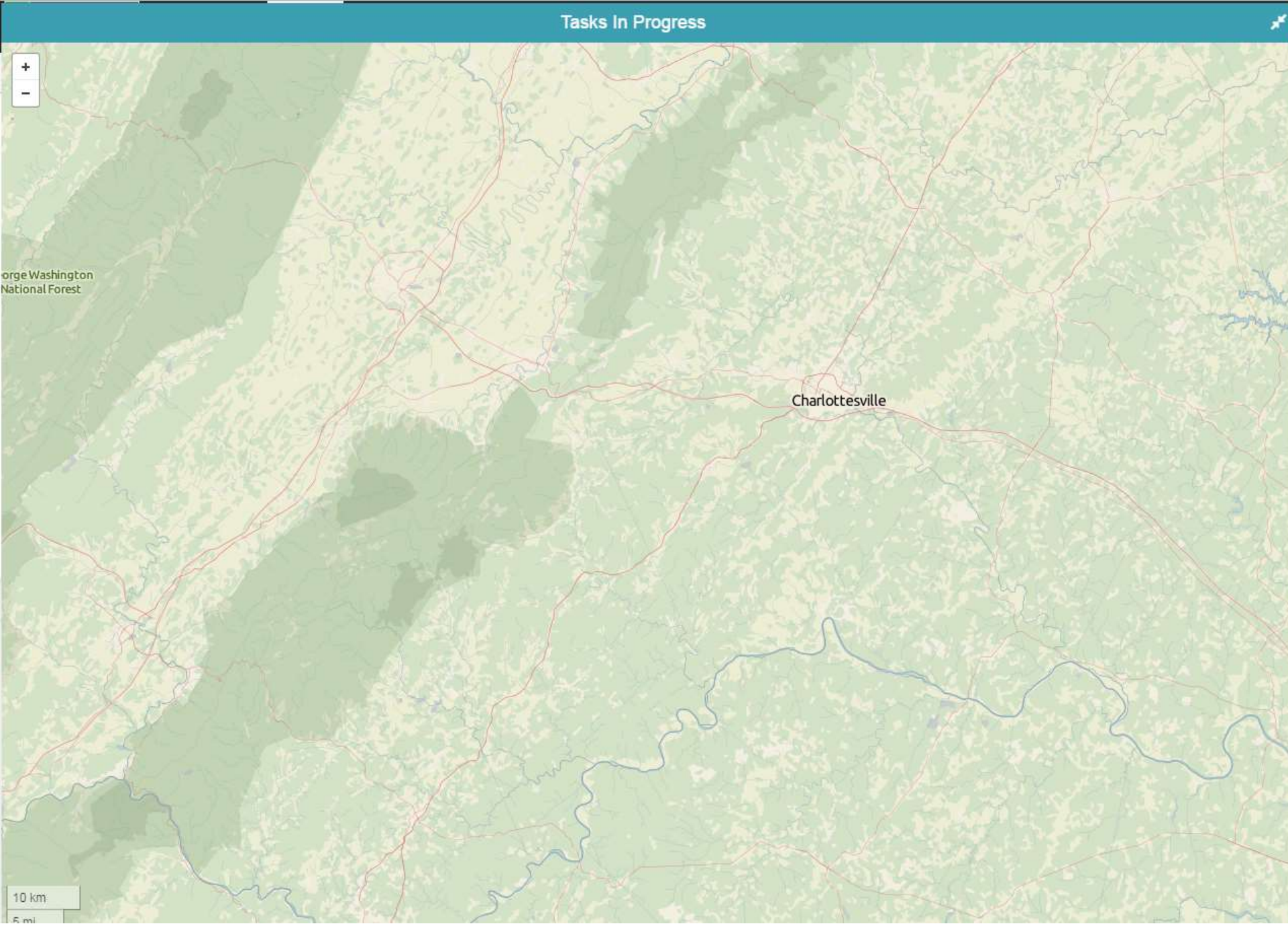
Search Theory



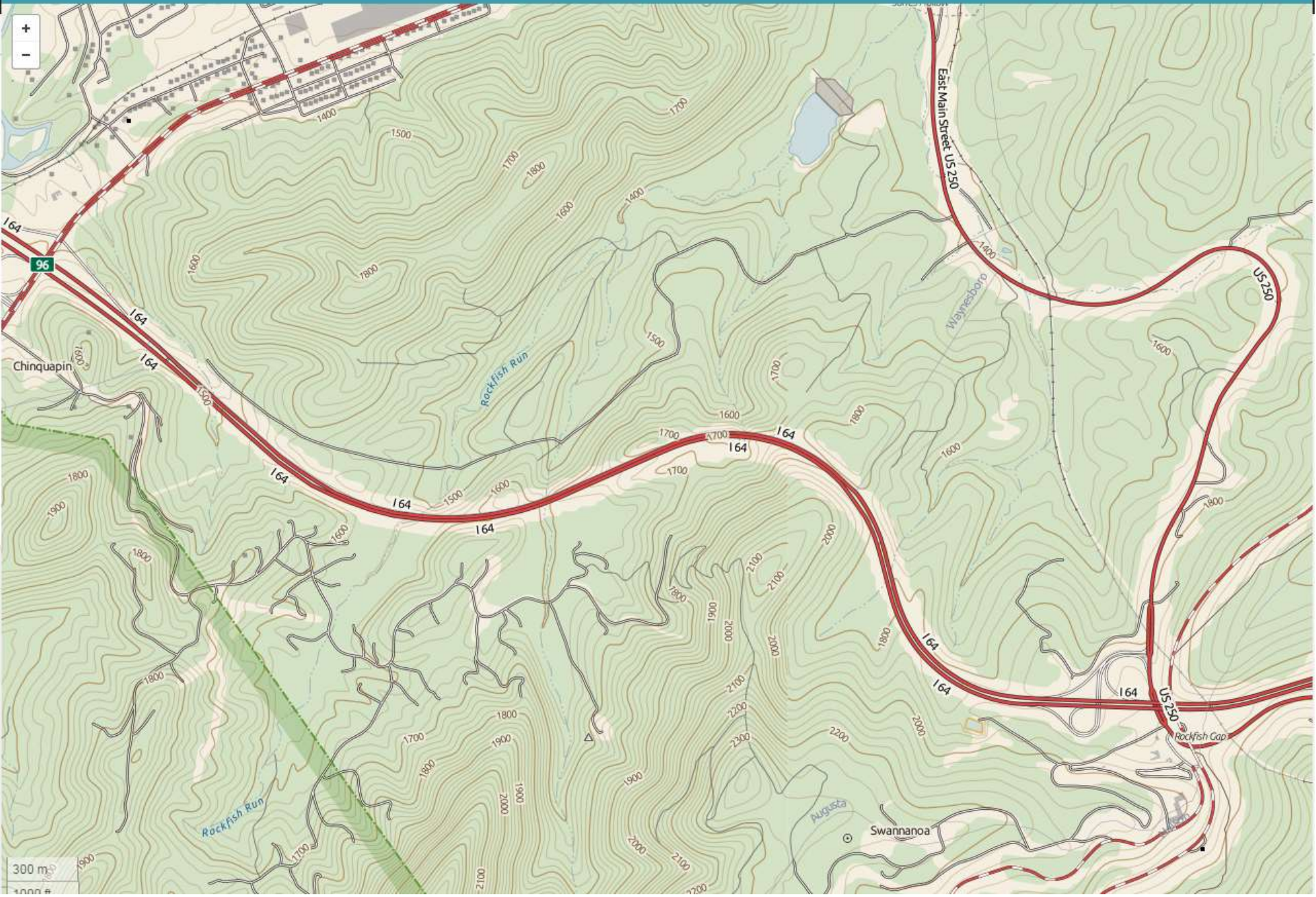


Total Topo

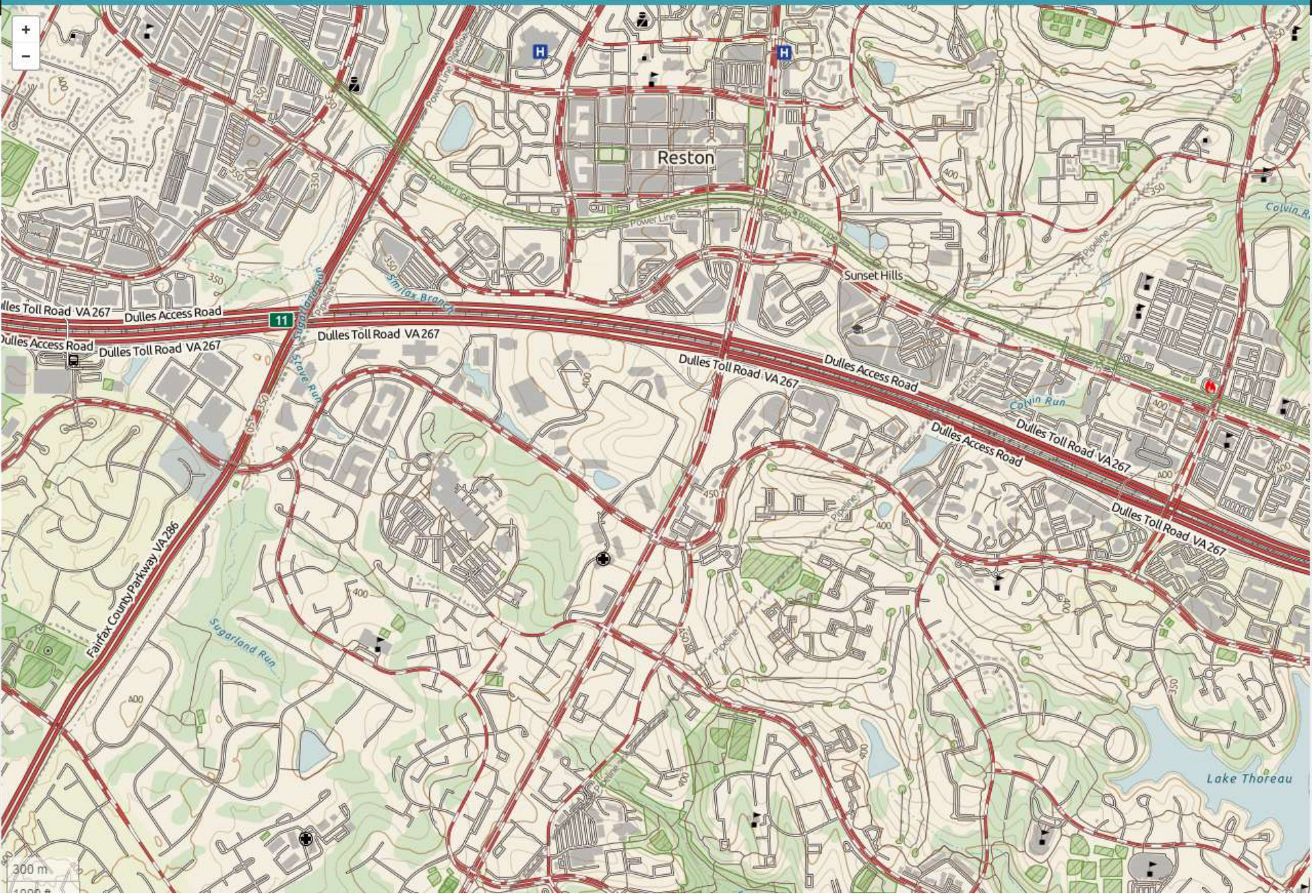
- Two base maps provided
  - Total Topo
  - USGS old style quad (SAR Topo)


Tasks In Progress
+
−
orge Washington
National Forest
Charlottesville
10 km

Tasks In Progress



Tasks In Progress



FIND

ADMIN SEARCHES

New Search

INCIDENT TYPE ▲	INC	BJECT CATEGORY
Search	a	er
Search	b	er
Search	123	er
Search	2	er
Search	c	er
Search	sea	er

New Search

Drag Icon to Incident Location/IPP or enter coordinates below

INCIDENT LOCATION/IPP

Latitude

36.57456016082412

Longitude

-80.84916114807129

Initial Direction of Travel (degrees)

31

RECORD INFO

Record Name

FIND

ADMIN SEARCHES

Latitude

36.571523021148295

Longitude

-80.8362865447998

New Search

INCIDENT TYPE ▲	INC	BJECT CATEGORY
Search	a	er
Search	b	er
Search	123	er
Search	2	er
Search	c	er
Search	sea	er

Initial Direction of Travel (degrees)

31

RECORD INFO

Record Name

Hiker
ATV
Abandoned Vehicle
Abduction
Ages 1-3 (Toddler)
Ages 10-12 (Pre-Teenager)
Ages 13-15 (Adolescent)
Ages 4-6 (PreSchool)
Ages 7-9 (SchoolAge)
Aircraft Incident
Alpine Skier
Angler
Autism
Extreme Race
Car Camper
Caver
Day Climber
Dementia
Despondent
Gatherer

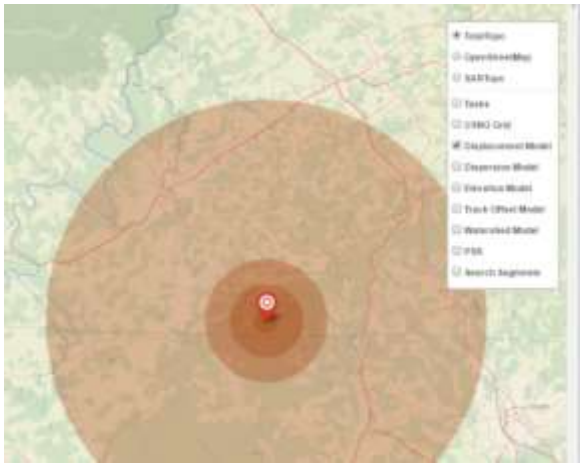
Hiker

Incident Status

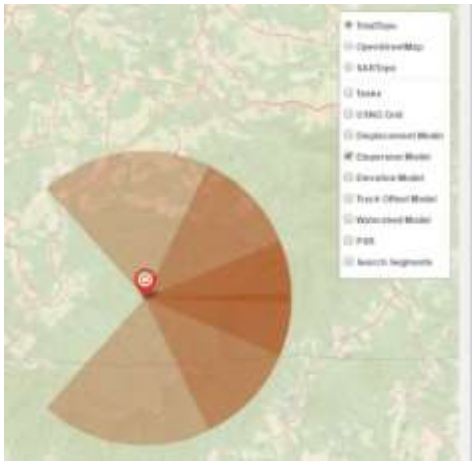
tive pen osed

Reset Form Cancel Add Record

Generates LPB Models

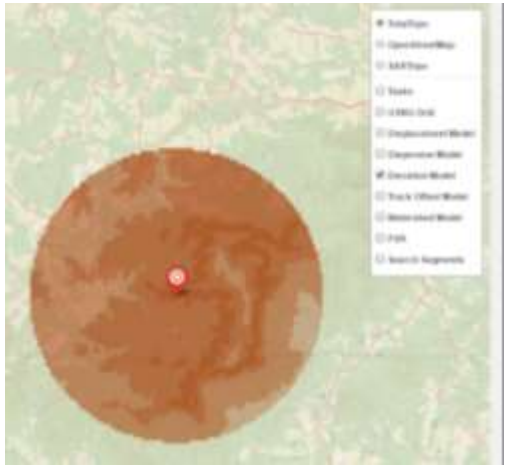


Displacement

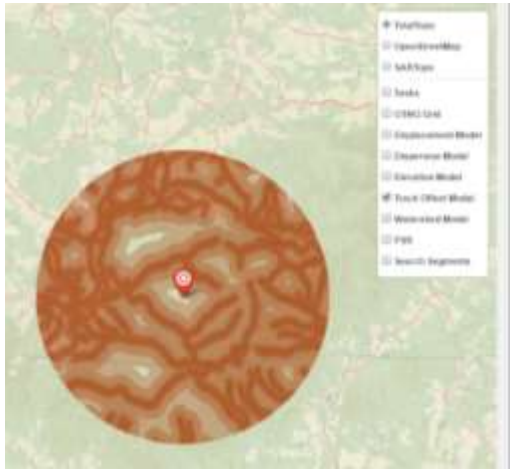


Dispersion

+ Find Location
+ Mobility
+ Point



Elevation

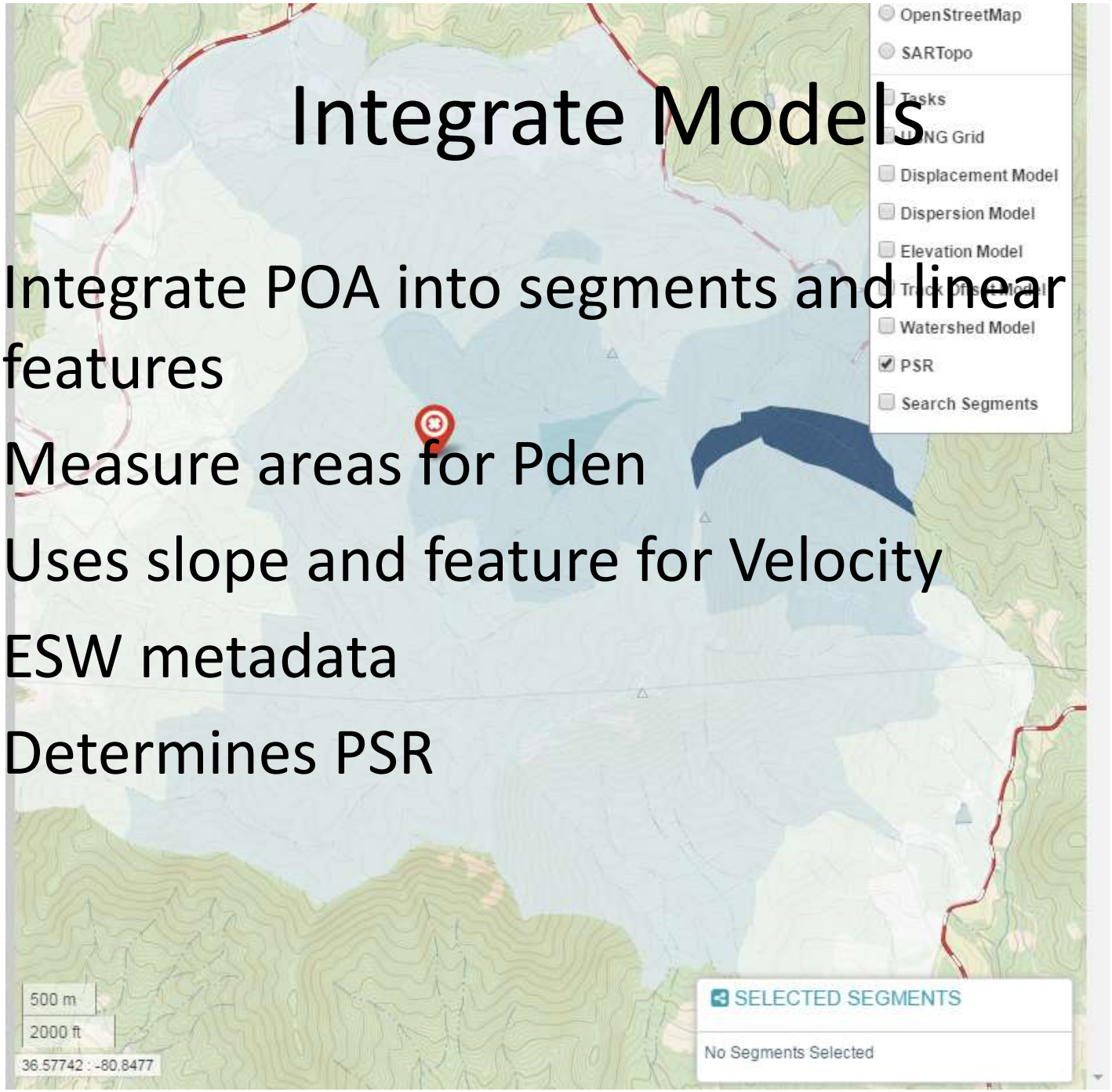


Track Offset

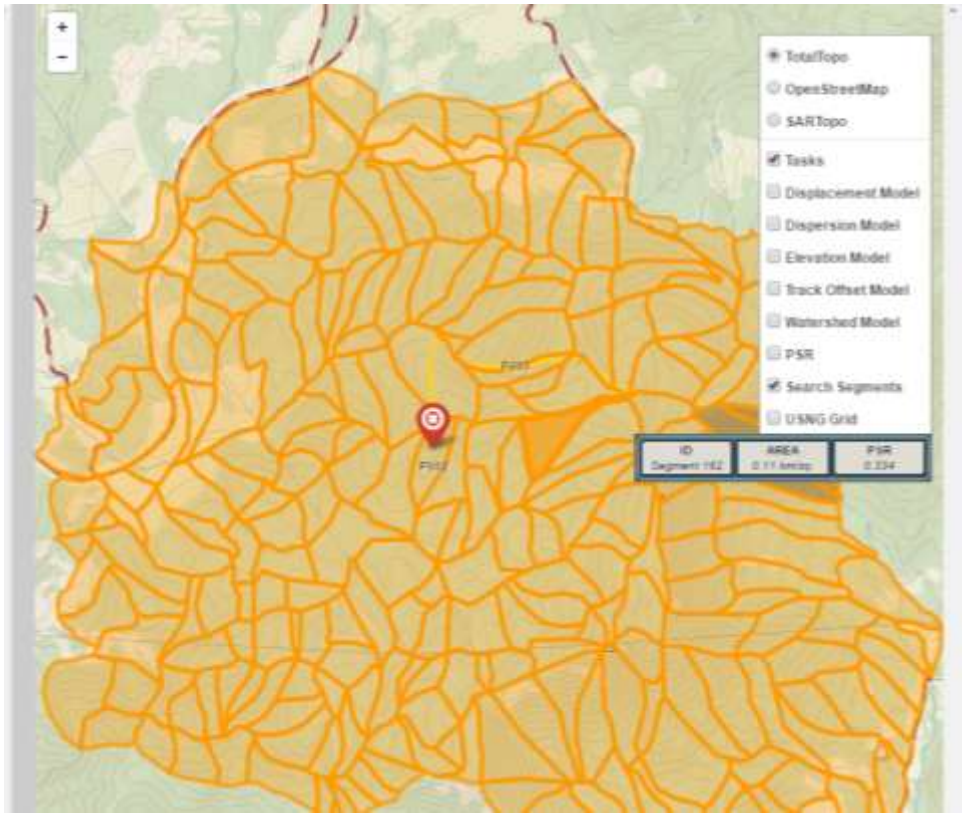
Watershed

Integrate Models

- Integrate POA into segments and linear features
- Measure areas for Pden
- Uses slope and feature for Velocity
- ESW metadata
- Determines PSR



SAR Theory Summary



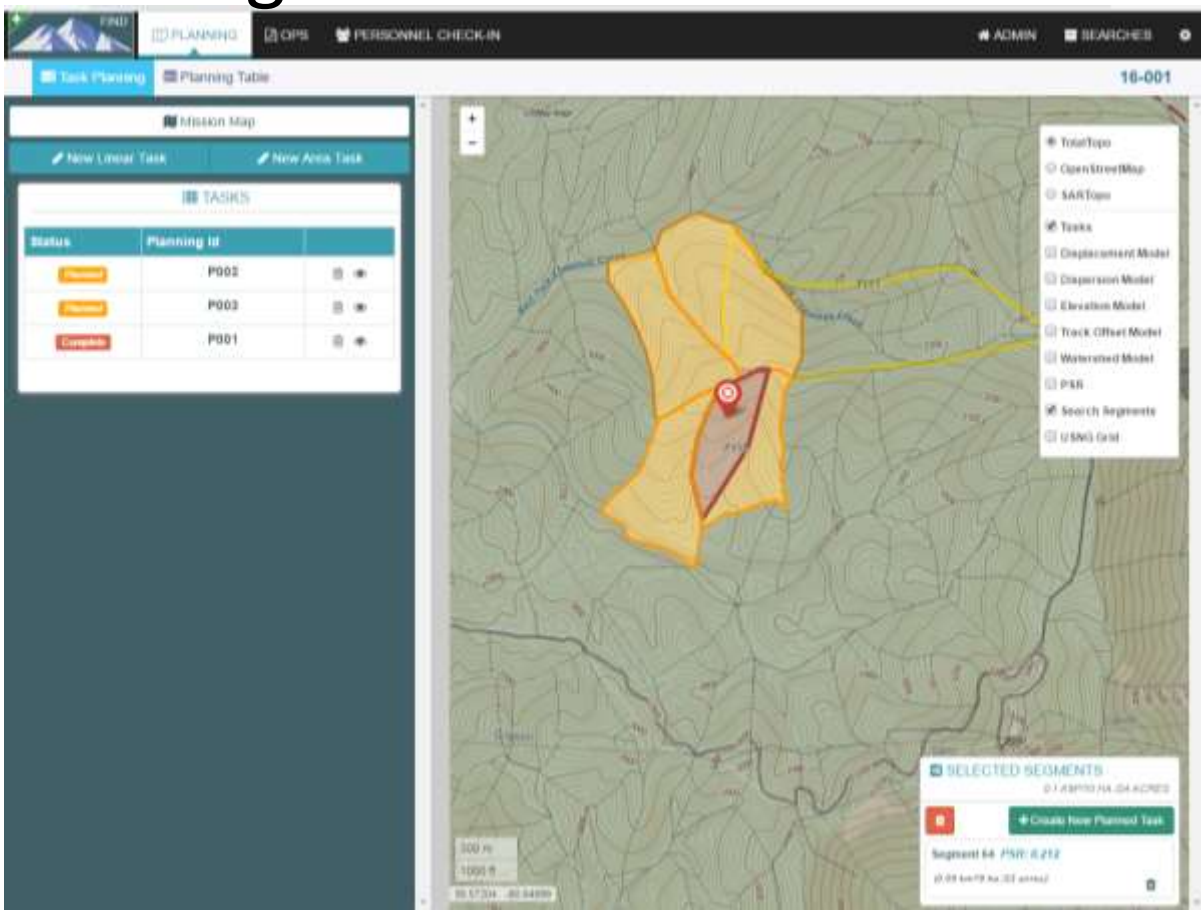
SAR Theory Refinement

- Add consensus process
- Calculate POD
- Shift POA
- Update PSR
- Optimal allocation of resources

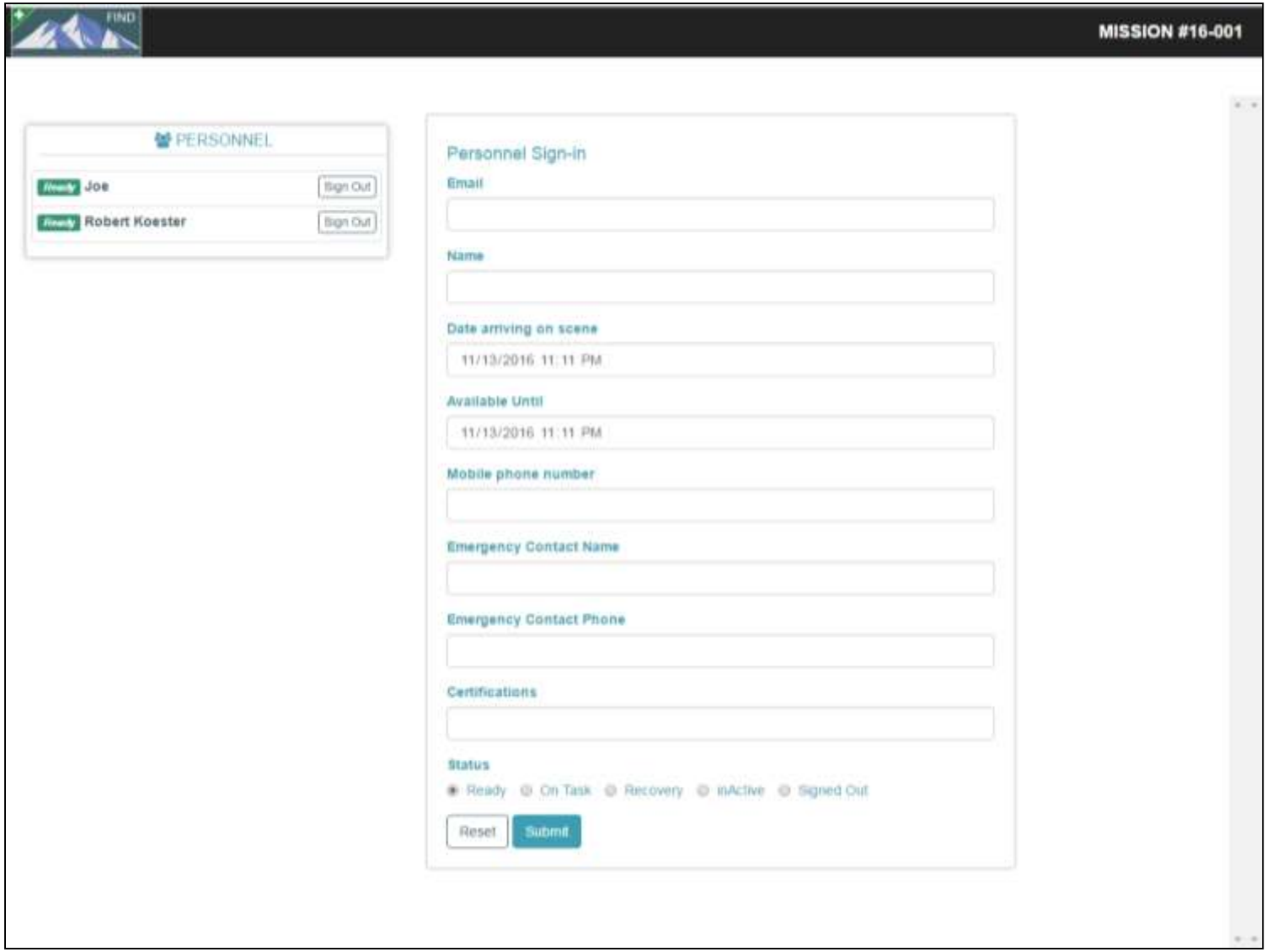
Incident Management

Creating Tasks

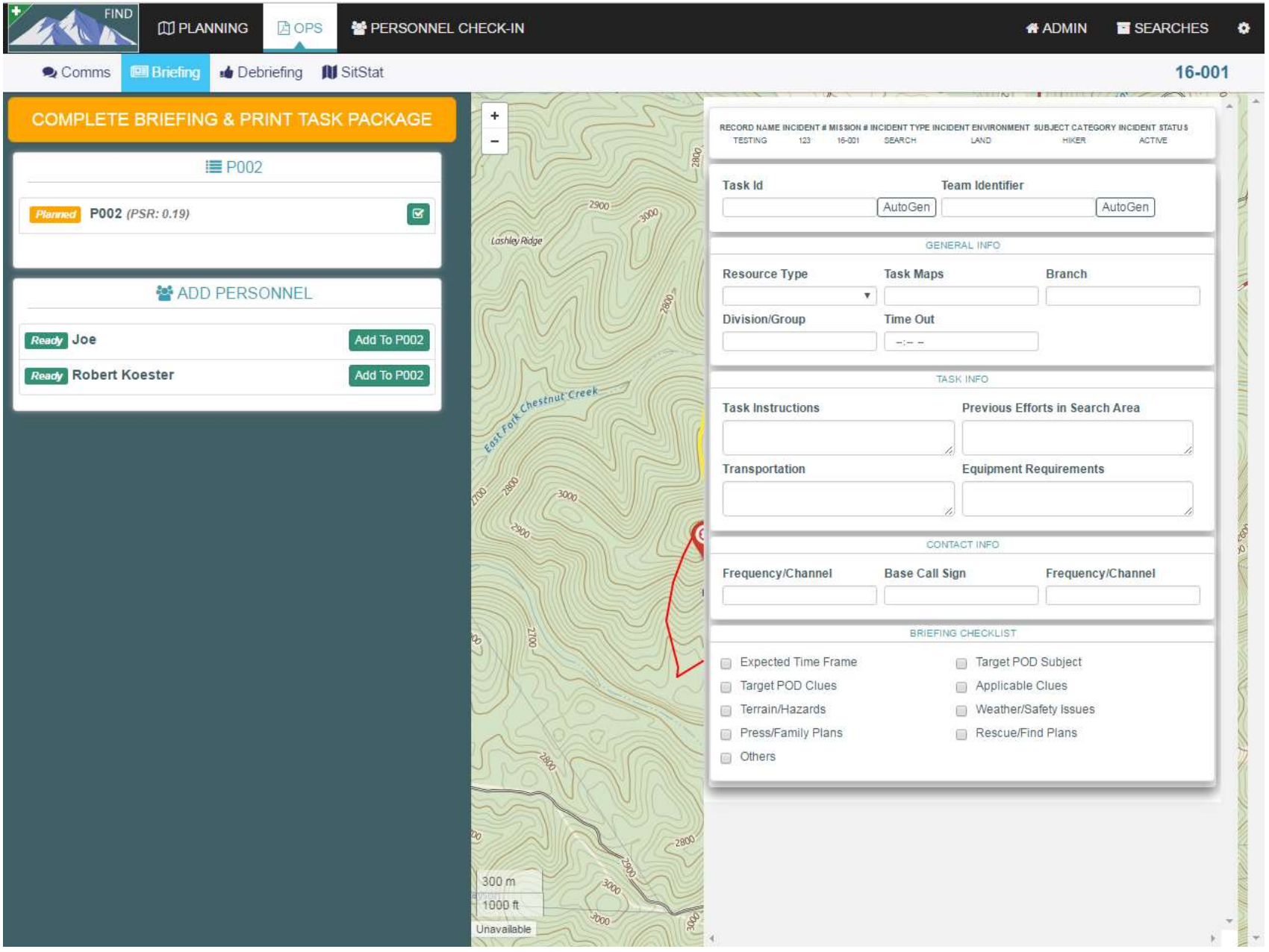
- Auto Linear Tasks
- Auto Segment area Tasks
- Manual Linear Task
- Manual Area Task



Sign-In Personnel



Task Assignment Form



Task Package PDF

T11-13-002 Task Assignment Form

RECORD NAME: TESTING | INCIDENT #: 123 | MISSION #: 16-001 | INCIDENT TYPE: SEARCH | INCIDENT ENVIRONMENT: LAND | SUBJECT CATEGORY: HIKER

INCIDENT STATUS: ACTIVE

Name	Role	Leader?	Agency
joe	Dir		
Robert Koester	Walker		

Task Id: T11-13-002

Team Identifier: Bravo

Resource Type | **Task Maps** | **Branch**

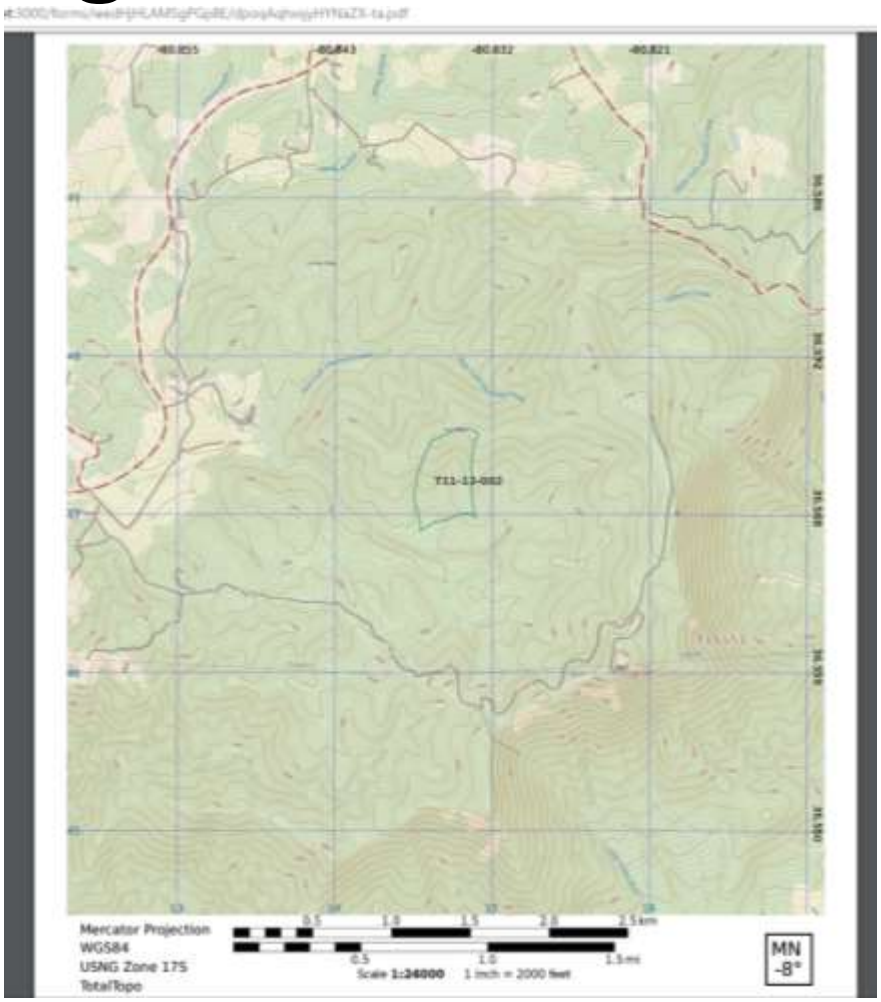
Division/Group | **Time Out**

Task Instructions | **Previous Efforts in Search Area**: None

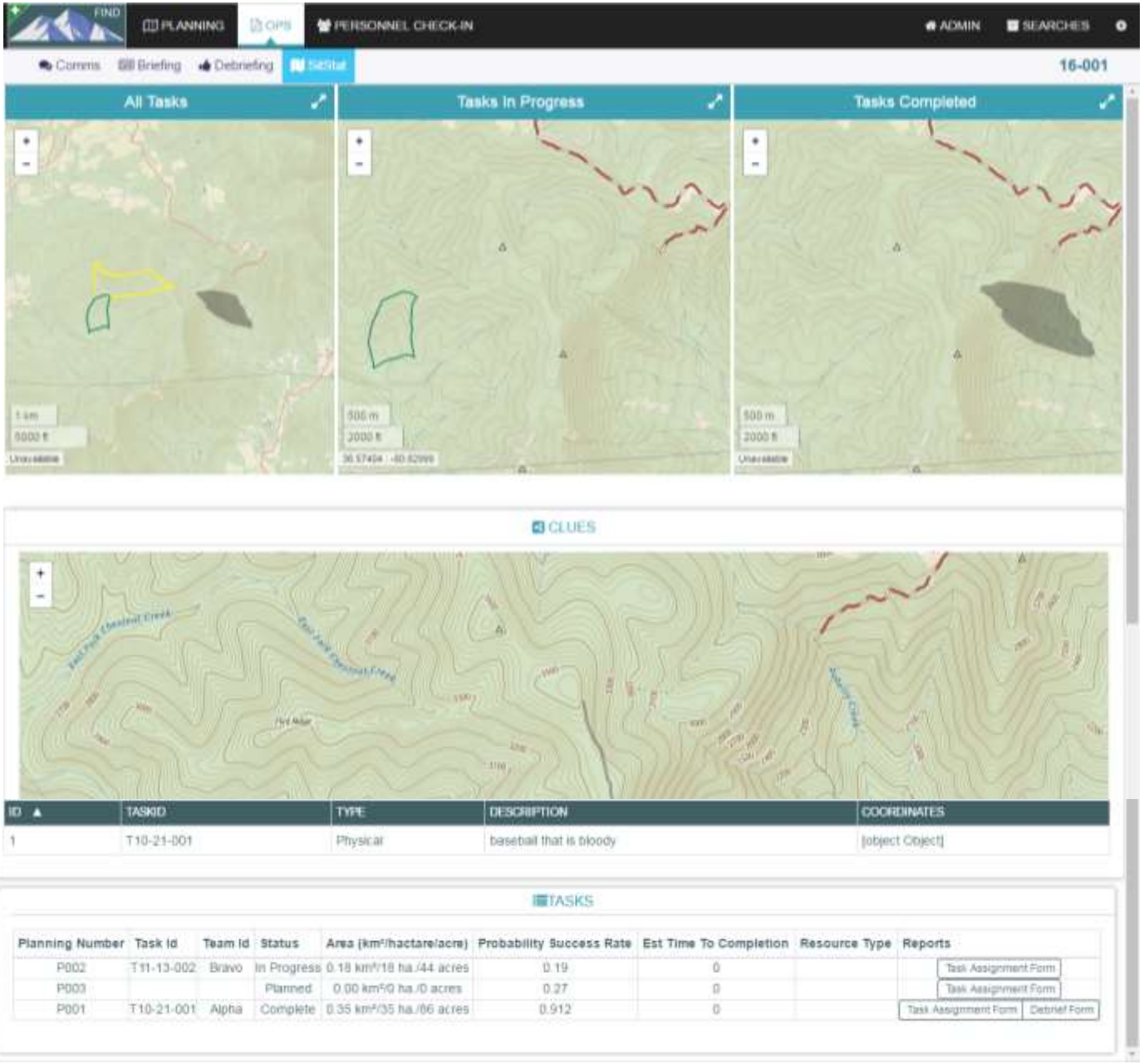
Transportation | **Equipment Requirements**

Frequency/Channel | **Base Call Sign**: Base | **Frequency/Channel**: 155.160

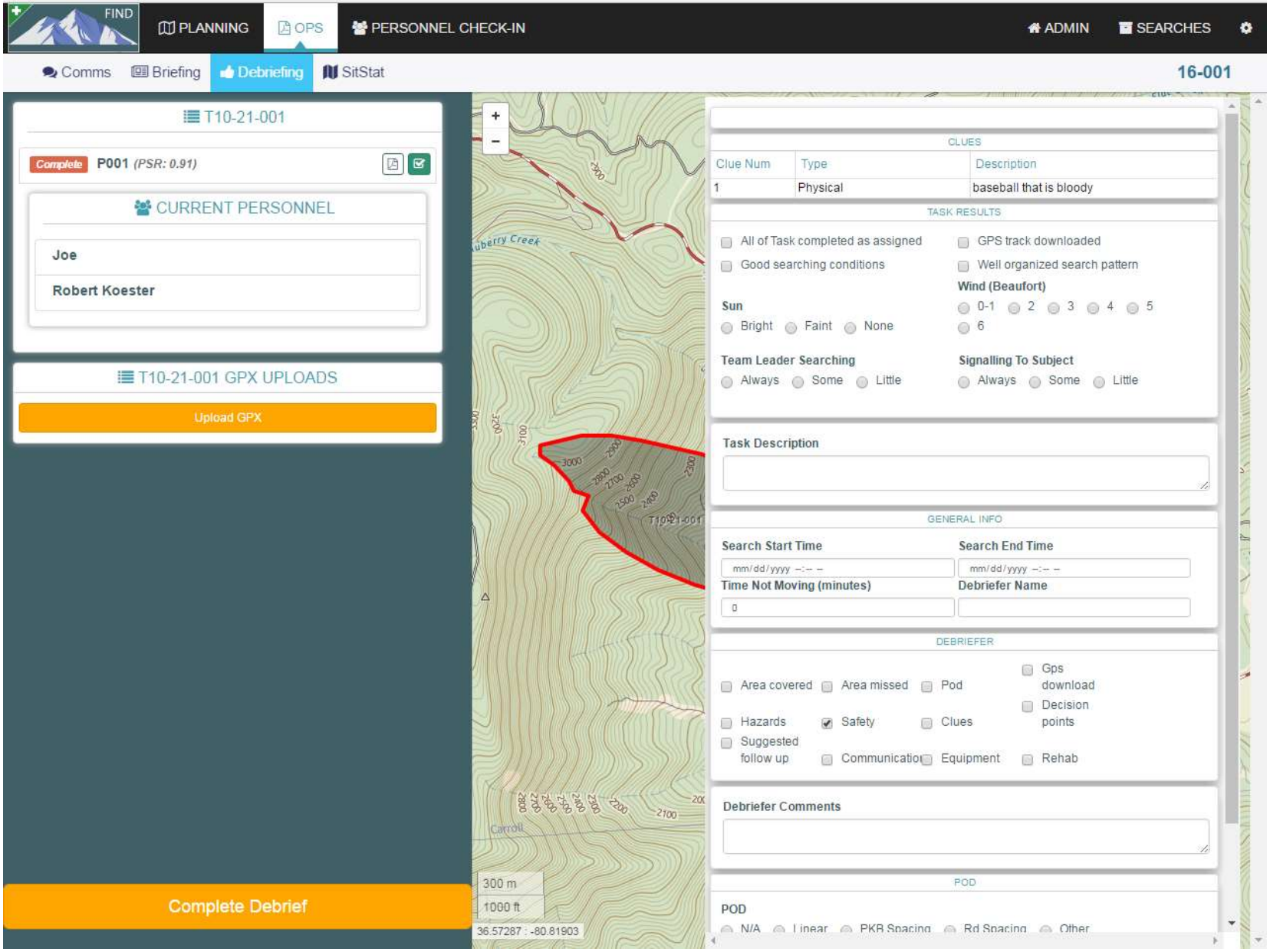
- [ ] Expected Time Frame
- [ ] Target POD Clues
- [ ] Terrain/Hazards
- [ ] Press/Family Plans
- [ ] Others
- [ ] Target POD Subject
- [ ] Applicable Clues
- [ ] Weather/Safety Issues
- [ ] Rescue/First Plans



SITSTAT


FIND
PLANNING
OPS
PERSONNEL CHECK-IN
ADMIN
SEARCHES
Comms
Briefing
Debriefing
Sitstat
16-001
All Tasks
Tasks In Progress
Tasks Completed
CLUES
ID
TASKID
TYPE
DESCRIPTION
COORDINATES
1
T10-21-001
Physical
baseball that is bloody
[object Object]
TASKS
Planning Number
Task Id
Team Id
Status
Area (km²/hectare/acre)
Probability Success Rate
Est Time To Completion
Resource Type
Reports
P002
T11-13-002
Bravo
In Progress
0.18 km²/18 ha./44 acres
0.19
0
Task Assignment Form
P003
Planned
0.00 km²/0 ha./0 acres
0.27
0
Task Assignment Form
P001
T10-21-001
Alpha
Complete
0.35 km²/35 ha./86 acres
0.912
0
Task Assignment Form
Debrief Form

Debrief


FIND
PLANNING
OPS
PERSONNEL CHECK-IN
ADMIN
SEARCHES
Comms
Briefing
Debriefing
SitStat
16-001
T10-21-001
Complete
P001 (PSR: 0.91)
CURRENT PERSONNEL
Joe
Robert Koester
T10-21-001 GPX UPLOADS
Upload GPX
Complete Debrief
CLUES
Clue Num
Type
Description
1
Physical
baseball that is bloody
TASK RESULTS
All of Task completed as assigned
GPS track downloaded
Good searching conditions
Well organized search pattern
Wind (Beaufort)
Sun
0-1
2
3
4
5
Bright
Faint
None
6
Team Leader Searching
Signalling To Subject
Always
Some
Little
Task Description
GENERAL INFO
Search Start Time
Search End Time
mm/dd/yyyy --:-- --
Time Not Moving (minutes)
Debriefer Name
DEBRIEFER
Area covered
Area missed
Pod
Gps download
Decision points
Hazards
Safety
Clues
Suggested follow up
Communication
Equipment
Rehab
Debriefer Comments
POD
POD
N/A
Linear
PKB Spacing
Rd Spacing
Other
300 m
1000 ft
36.57287 : -80.81903