

WFIT TASKING REPORT

FROM NWCG FUELS MANAGEMENT COMMITTEE

CREATED 2017 - REVISED JANUARY 2022



TASKING FROM FMB

- **AS IT RELATES TO THE PRACTICE OF FUELS MANAGEMENT & FIRE ECOLOGY:**
 - **HELP DEFINE INFORMATION TECHNOLOGY CAPABILITIES IN TERMS OF THE CURRENT STATUS, FUTURE NEEDS, AND MINIMUM REQUIREMENTS TO HELP FMB MAKE BETTER INFORMED INVESTMENT DECISIONS**

CAPABILITIES

- **CONCEPT OF DESCRIBING OUR INFORMATION TECHNOLOGY “CAPABILITIES” WAS TOO ABSTRACT AND VAGUE FOR FMC MEMBERS**
- **EASIER FOR US TO START BY TALKING ABOUT APPLICATIONS – CURRENT, IN DEVELOPMENT AND FUTURE**
- **PAUL AND MARK SORTED OUR APPLICATIONS LIST BY CAPABILITIES**
 - **WE STILL DON'T GET THE POINT BUT THAT'S OK, AS LONG AS YOU GET WHAT YOU NEED!!**

METHODS

- **REVIEW WFIT APPLICATIONS LIST**
 - **COMPLETENESS CHECK**
 - **IDENTIFY THOSE RELATED TO FUELS MANAGEMENT/FIRE ECOLOGY**
 - **REASSIGN TIERS AS NEEDED (USING WFIT CRITERIA)**
- **CATEGORIZE EXISTING APPLICATIONS BY LEVEL OF IMPORTANCE & PERFORMANCE**
- **PRIORITIZATION**
 - **IMPORTANCE & PERFORMANCE SCORES**
 - **EACH BUREAU/ENTITY PICKS THEIR TOP-5 APPLICATIONS**
- **IDENTIFY GAPS – THINGS WE NEED OR WOULD LIKE IT TO DO BUT CURRENTLY CAN'T**
 - **PRIORITIZE MOST IMPORTANT GAPS**

PRODUCTS-OUTCOMES

- **FILTERED APPLICATIONS LIST WITH UTILITY/PERFORMANCE SCORING**
- **PRIORITY APPLICATIONS AS SELECTED BY COMMITTEE MEMBERS & ADVISORY MEMBER (OWF)**
- **GAPS WORKSHEET WITH TOP 6 GAPS AS SELECTED BY COMMITTEE MEMBERS SCORING**

FILTERED APPLICATIONS LIST

- **FROM MASTER LIST, SELECTED ONLY THOSE APPS THAT WERE PERTINENT TO FUELS/FIRE ECOLOGY**
- **EACH APPLICATION (EXISTING OR PROPOSED) IS CATEGORIZED BY A) IMPORTANCE, B) PERFORMANCE**
- **A WEIGHTING FUNCTION IS THEN APPLIED TO SCORE EACH APPLICATION TO DETERMINE THE RELATIVE PRIORITY AS IT PERTAINS TO FUELS/FIRE ECOLOGY**
- **IF THERE IS A DISCREPANCY BETWEEN BUREAUS THEN NO CATEGORIZATION IS MADE AND THE DISCREPANCY IS DESCRIBED IN THE NOTES COLUMN**

CATEGORIZING “IMPORTANCE”

Category	Description
Critical	Needed to meet legal and/or policy requirements or time sensitive life/safety concerns; no viable alternatives
High	Needed to meet policy requirements; no viable alternatives available; loss of capability would result in substantial set-backs to mission delivery noticeable externally and reflect poorly on bureau performance
Moderate	Loss of capability would cause set-backs to mission delivery; more evident internal than external but justifiable in budget constrained environment; viable alternatives may be available
Low	Capability can be met through other means or loss of capability will not substantially effect mission delivery
Discrepancy	Bureau mission, policy or mandates differ creating discrepancy in importance; explained in notes

CATEGORIZING “PERFORMANCE”

Category	Description
Exemplary	Business need is fully satisfied and additional value-added capabilities are provided
Satisfactory	Minimum requirements needed to fulfil the business need are met (Exemplary can become Satisfactory as state of the art matures)
Partially	Most of the minimum requirements needed to fulfill the business need (capability) are met, but some deficiencies exist making performance less than satisfactory
Deficient	Business need is not being met at all or being met poorly enough to be considered deficient
Remove/Integrate	System/application can be integrated into another existing system allowing it to be removed as a standalone system/application
Obsolete/Replace	Capability is no longer needed or is already being met through other more effective means
Discrepancy	Bureau mission, policy or mandates differ creating discrepancy in assignment of performance categories; explained in notes

APPLICATION PRIORITIES SCORING - IMPORTANCE X PERFORMANCE

-10 to -12	Dark Red - Highest Priority for Investment/Support			
-7 to -9	Red - High Priority for Investment/Support			
-4 to -6	Orange - Moderate Priority for Investment/Support			
-1 to -3	Yellow - Low Priority for Investment/Support			
0	Green - Opportunity to Reduce Investment/Support or Gain Efficiency			
100	Discrepancy - Differences in Bureau Mission, Policy, or Mandates; Explanation Provided in Notes			

	Exemplary	Satisfactory	Partially	Deficient	Remove/ Integrate	Obsolete/ Replace	Discrepancy
Critical	Orange		Red	Dark Red	Orange	Green	Discrepancy
High	Yellow		Orange	Red	Yellow	Green	Discrepancy
Moderate	Yellow		Orange	Yellow	Yellow	Green	Discrepancy
Low	Yellow				Yellow	Green	Discrepancy

PRIORITY APPLICATIONS*

Application	BIA**	BLM	NPS	USFWS	USFS	NASF	OWF	Total
IFTDSS		5	4	5	4	3	4	25
ESRI Collector		4	2	4		3	1	14
NFPORS (or Replacement)		1			5		5	11
Landfire			5		2		2	9
IRWIN		3		2		3		8
FFI		2	3	1				6
WIMS				3	3			6
FTEM					1		3	4
Lessons Learned						3		3
Behave Plus						3		3
AFF						3		3
MTBS			1					1

* Doesn't mean get rid of everything else – refer to worksheet for obsolete/replace

**Note: BIA preference to prioritize GAPS (aka future needs) rather than current

EMPHASIS AREAS FOR IN INFORMATION TECHNOLOGY NEEDS – FUELS MGT. CMT.

- **NFPORS REPLACEMENT – NFPORS IS EXPIRING LEAVING A GAP IN THE NEED TO PRODUCE JOINT ACCOMPLISHMENT REPORTING**
- **IFTDSS/FTEM**
 - **ONE-STOP SHOP FOR FUELS SPECIALIST DATA GATHERING, ANALYSIS AND REPORTING NEEDS**
 - **ACHIEVED WITH FLEXIBLE SOFTWARE ARCHITECTURE IN IFTDSS**
 - **FACILITATES INTEGRATION AND INNOVATION; ALLOWS FOR EASY PLUG/PLAY/REPLACE MODULARITY;**
 - **PROVIDES A MODELING PLAYGROUND THAT CAN ENABLE RESEARCH AND APPLICATION DEVELOPMENT FOR FUTURE IFTDSS DEVELOPMENT**
 - **QUANTIFICATION OF WILDFIRE RISK DEVELOPED – TRAINING/TECH TRANSFER REMAINS**
 - **FTEM SYSTEM ENHANCEMENTS – SEVERAL IN DEVELOPMENT**

PRIORITY – DEPENDS ON WHERE YOU WORK

Level of Org.	Task	Data	Applications
Field	Plan a fuels treatment/project Implement a fuels treatment/project NEPA Preparation	GPS/GIS data of the area, photo series, weather and climate data Slope Aspect Fire History (polygons) Past Accomplished Treatments	IFTDSS (includes FTEM, FLAMMAP, ArcFuels, BehavePlus, FireFamilyPlus, Smoke Modeling, etc.) NFPORS NEPA/Planning Document Tool (ePlanning, Spatial Fire Management Plan) Avenza/Collector Spot Weather Forecasting CONSUME
Regional	Review plans, procedures, coordinate and approve budgets	LANDFIRE MTBS Historic Fire and Fuels Data Boundary Data	IFTDSS Smoke Modeling Aps NFPORS
National	Upward reporting, allocating the budget, and coordinating among regions and agencies	LANDFIRE MTBS Historic Fire and Fuels Data Boundary Data	NFPORS FSPRO
Interagency	Collaboration	LANDFIRE Historic Data Boundary Data	Data Cache/Repository - interconnecting applications such as IRWIN and IFTDSS
Ancillary	Provide assistance such as spot weather forecasts	Climate/Weather	