

A photograph of a logging operation in a forest. A red logging truck with a crane arm is positioned in the center-left. The crane arm is extended over a large pile of logs. A worker is visible on top of the log pile. The forest is filled with tall, thin trees, and the ground is covered with dry grass and pine needles. The sky is blue with white clouds.

4FRI Specific Analysis

How did we get here?

4FRI initial planning and budget documents

Assumptions for Zone Prep Organization (2011)

- Target expected restoration treatments readied for offer for 60,000 acres per year.
- Assumes stewardship authority is in place to be able to do DxP
- Northern Prep Zone is actually two crews and can layout 26,000 acres per year with 20-30% being marked and 70-80% DxP.
- Southern Prep Zone can layout 20,000 acres per year with 20-30% being marked and 70-80% DxP.

2015 and 2016 CFLRP Annual Report

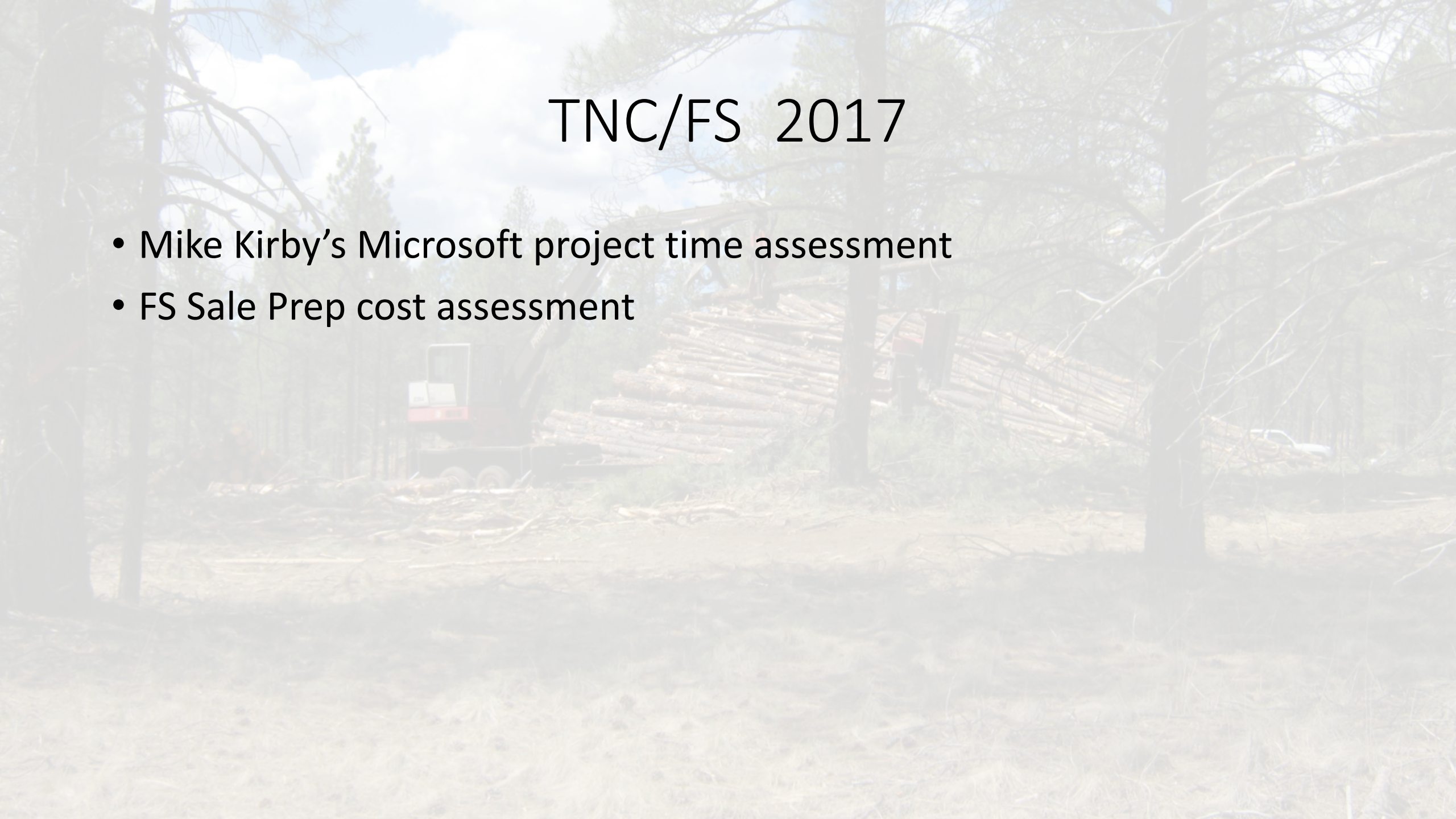
- ID'ed 17 short-term needs to improve processes moving forward
 - Fully authorize use of 2400-6 Weight scaled contracts for all contracts, see FSM 2440 direction. (Scaled sales provide greater prep efficiency)
 - Reduce dependence upon tree marking paint, emphasize opportunities to use area based cutting designation (DxD/DxP ex, C2.38, C2.355#) and contractor based performance items to promote trust and ownership. Explore tablet technology for designation guide on D x P prescriptions Reports identified 5 long-term recommendations to improve process forward
- ID'ed 6 long-term needs to improve processes moving forward
 - Use an adaptive, realistic performance level standard for treatment evaluation focused upon landscape scale intent and fiscally responsible results.
 - Continue to reduce contracting barriers, revise merchantability policies, and improve current contracting practices and templates within existing authorities.

4FRI Industry Roundtable (2016-2017)

- ID'ed 25 recommendations including
 - Include ecosystem restoration value in appraisal process.
 - Include byproducts other than logs (i.e. biomass) in appraisal process.
 - Develop increased authority (over 30,000 CCF) for Contracting Officers in order to increase projects size.
 - Reform the load accountability / branding / painting process to reduce administrative constraints on low value logs.
 - Increase maximum stewardship contracts duration to 20 years

TNC/FS 2017

- Mike Kirby's Microsoft project time assessment
- FS Sale Prep cost assessment



	mark all, tree measurement		mark all, scaled sale		50% D x P and virtual boundary, scaled sale		20 % mark, 50% DPG D x P, 30% D x P and 50% virtual boundary, scaled sale	
	Cost/acre	Cost /per project	Cost/acre	Cost /per project	Cost/acre	Cost /per project	Cost/acre	Cost /per project
1) Signed NEPA								
2) Prioritization of treatment areas (general project area)		\$320		\$320		\$320		\$320
3) Logical harvest blocks (based on roads and operability)	\$3.86	\$7,715	\$3.86	\$7,715	\$3.86	\$7,715	\$3.86	\$7,715
4) Resource surveys								
a. Wildlife	\$3.88	\$7,759	\$3.88	\$7,759	\$3.88	\$7,759	\$3.88	\$7,759
b. Botany	\$2.50	\$5,000	\$2.50	\$5,000	\$2.50	\$5,000	\$2.50	\$5,000
c. Noxious weed	\$2.50	\$5,000	\$2.50	\$5,000	\$2.50	\$5,000	\$2.50	\$5,000
d. Cultural	\$11.16	\$22,325	\$11.16	\$22,325	\$11.16	\$22,325	\$11.16	\$22,325
e. Landline								
f. Right-of-way								
g. Road status/condition	\$0.69	\$1,715	\$0.69	\$1,715	\$0.69	\$1,715	\$0.69	\$1,715
h. Stand exam	\$0.00		\$0.00		\$0.00		\$0.00	
5) Submit cultural resource report to SHPO for clearance	\$1.63	\$3,250	\$1.63	\$3,250	\$1.63	\$3,250	\$1.63	\$3,250
6) Walk through exams	\$1.38	\$2,750	\$1.38	\$2,750	\$1.38	\$2,750	\$1.38	\$2,750
7) Treatment unit creation	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0	\$0.00	\$0
8) Modeling and Rx development	\$1.63	\$3,250	\$1.63	\$3,250	\$1.63	\$3,250	\$1.63	\$3,250
9) Plan in-hand input from all specialist—develop specific mitigations, etc.	\$4.74	\$9,479	\$4.74	\$9,479	\$4.74	\$9,479	\$4.74	\$9,479
10) Initial volume estimate and economics/determine contract type	\$1.66	\$3,325	\$1.66	\$3,325	\$1.66	\$3,325	\$1.66	\$3,325
11) Layout and mark of boundaries	\$22.03	\$44,060	\$22.03	\$44,060	\$13.34	\$26,680	\$13.34	\$26,680
12) Mark Rx (paint or D x P)	\$49.88	\$99,760	\$49.88	\$99,760	\$20.22	\$40,440	\$14.12	\$28,240
13) Cruise design	\$1.38	\$2,750	\$1.38	\$2,750	\$1.38	\$2,750	\$1.38	\$2,750
14) Cruise	\$7.41	\$14,810	\$3.95	\$7,890	\$3.95	\$7,890	\$3.95	\$7,890
15) Check cruise	\$0.69	\$1,375	\$0.09	\$756	\$0.09	\$756	\$0.09	\$756
16) Pretreat noxious weed, if applicable	\$5.00	\$500	\$5.00	\$500	\$5.00	\$500	\$5.00	\$500
17) Sale package development								
a. Appraisal	\$0.28	\$550	\$0.28	\$550	\$0.28	\$550	\$0.28	\$550
b. Contract package (specs/clauses/map/prospectus/report of timber sale)-(TIM)	\$3.75	\$7,500	\$3.75	\$7,500	\$3.75	\$7,500	\$3.75	\$7,500
c. K-V plan	\$2.05	\$4,093	\$2.05	\$4,093	\$2.05	\$4,093	\$2.05	\$4,093
d. BD plan	\$0.69	\$1,375	\$0.69	\$1,375	\$0.69	\$1,375	\$0.69	\$1,375
e. Road package	\$2.89	\$5,775	\$2.89	\$5,775	\$2.89	\$5,775	\$2.89	\$5,775
18) If integrated resource contract (IRSC or IRTC)---request stewardship approval	\$2.69	\$5,389	\$2.69	\$5,389	\$2.69	\$5,389	\$2.69	\$5,389
19) Road maintenance, if applicable								
a. level 3 and 4		\$50,000		\$50,000		\$50,000		\$50,000
b. level 2		\$7,500		\$7,500		\$7,500		\$7,500
c. reconstruct		\$15,000		\$15,000		\$15,000		\$15,000
20) Advertise timber sale/contract	\$0.15	\$305	\$0.15	\$305	\$0.15	\$305	\$0.15	\$305
21) Award contract	\$0.51	\$1,010	\$0.51	\$1,010	\$0.51	\$1,010	\$0.51	\$1,010
22) Review stewardship proposal and award	\$1.87	\$3,735	\$1.87	\$3,735	\$1.87	\$3,735	\$1.87	\$3,735
TOTAL Timber Sale (assumes 2,000 acre sale)	\$132.29	\$255,751	\$128.24	\$248,212	\$89.89	\$171,512	\$83.79	\$159,312
TOTAL IRTC (assumes 2,000 contract)	\$136.35	\$263,865	\$132.30	\$256,326	\$93.95	\$179,626	\$87.85	\$167,426