

Ministry of Forests, Lands and Natural Resource Operations



Using RESULTS Data as a MSYT Input

Dan Turner
Resource Practices
Branch

Dave Waddell
Forest Analysis & Inventory
Branch

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Background

- ▶ Commitment Made at NSC Winter Workshop 2016
- ▶ To expand and more directly utilize RESULTS data in TSR.
- ▶ Collaborative effort between FAIB and RPB
- ▶ By March 31, 2017

The Project Team

▶ Forest Analysis and Inventory Branch:

- Hubert Burger – Senior Analyst (TSAs)
- Dave Waddell – Modeling Forester

▶ Resource Practices Branch:

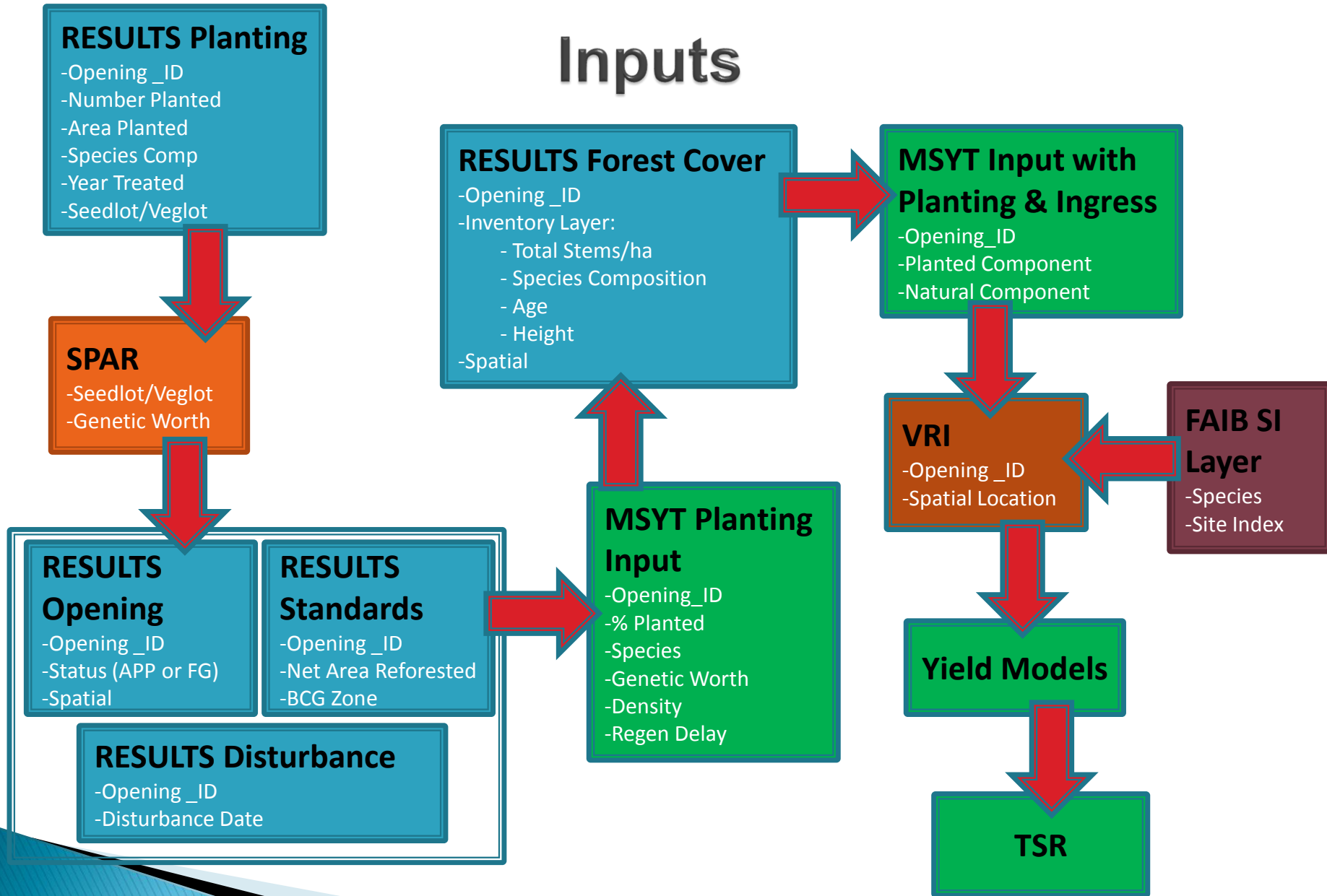
- Dan Turner – Forest Management Analyst
- Greg Jorgenson (the new Weaver) – Silviculture Performance Assmt. Specialist

Example

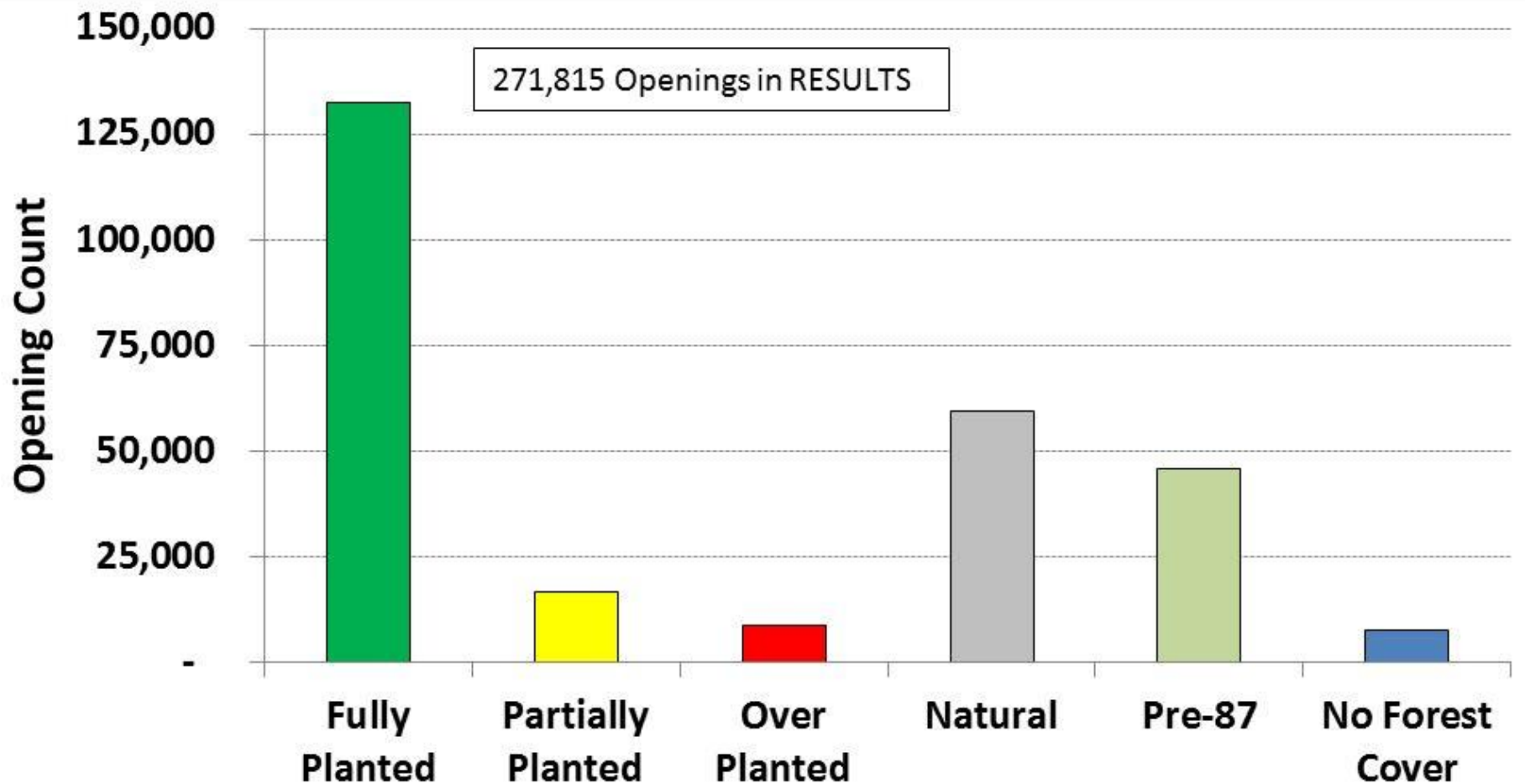
- ▶ TFL 47
- ▶ Logged 2005
- ▶ Planted 2006
- ▶ FG Survey 2015

Species	Density (Stems/ha)			
	Planting	Inventory	Ingress	Silviculture (FG)
Cw	214	235	21	73
Fdc	834	942	108	703
Hw		1,177	1,177	32
Total	1,048	2,354	1,306	808

Inputs



Sample Population



Regenerated Stands– Current Practice

Approaches:

1. Old harvested stands

- Natural regime, no GW, usually aggregated

2. Newly harvested stands

- Planted regime, GW, usually aggregated

3. Future managed stands

- Planted, GW, based on previous species (aggregated)

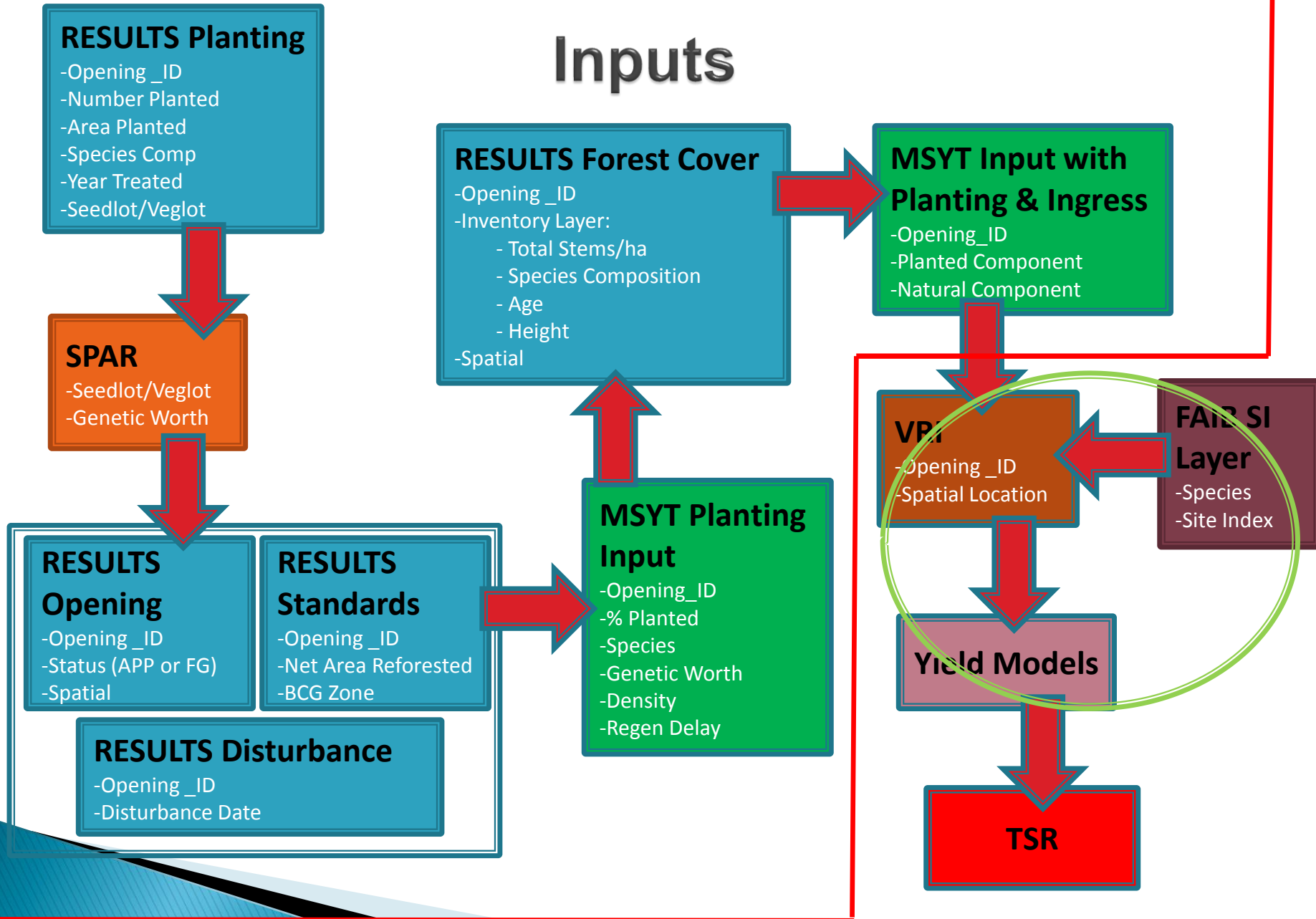
Regenerated Stands– Future Practice

- ▶ Data (periodically) extracted from RESULTS
- ▶ The output is yield curve inputs for all managed even-aged stands
 - Components – planted species, natural species (ingress), genetic worth, planted density, natural density, regen delay, % planted

Challenges

- ▶ Data from multiple sources and eras
- ▶ Summary of opening level trends (not SU/Stratum level)
 - ▶ $\Sigma(\text{opening treatment amount}) \sim \text{NAR}$
- ▶ Fill plants and replants \rightarrow over planting
- ▶ Residual overstory
- ▶ Spatial distribution of planted and natural stems
- ▶ Linkage to the VRI (timing of updates)

Inputs

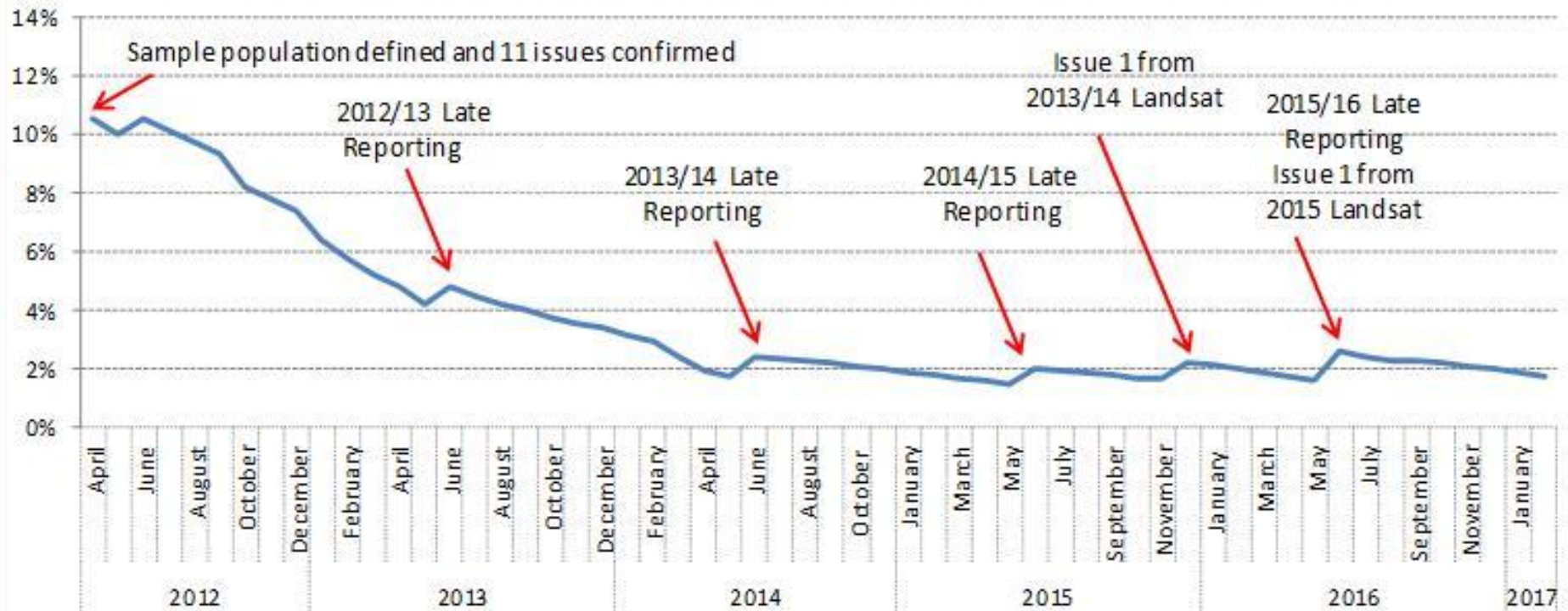


Next Steps

- ▶ Review and testing of the proposed MSYT inputs:
 - ▶ Implications to TASS
 - ▶ Integration with VRI
 - ▶ Integration into TSR data review process
 - ▶ Application of local knowledge
 - ▶ RESULTS updates / corrections
- ▶ Supporting Initiatives:
 - ▶ Monitoring (YSM, CMI, SDM)
 - ▶ TASS III
 - ▶ Improving the RESULTS – VRI linkage (the Opening_ID)
 - ▶ RESULTS Monitoring and QA – improving reporting

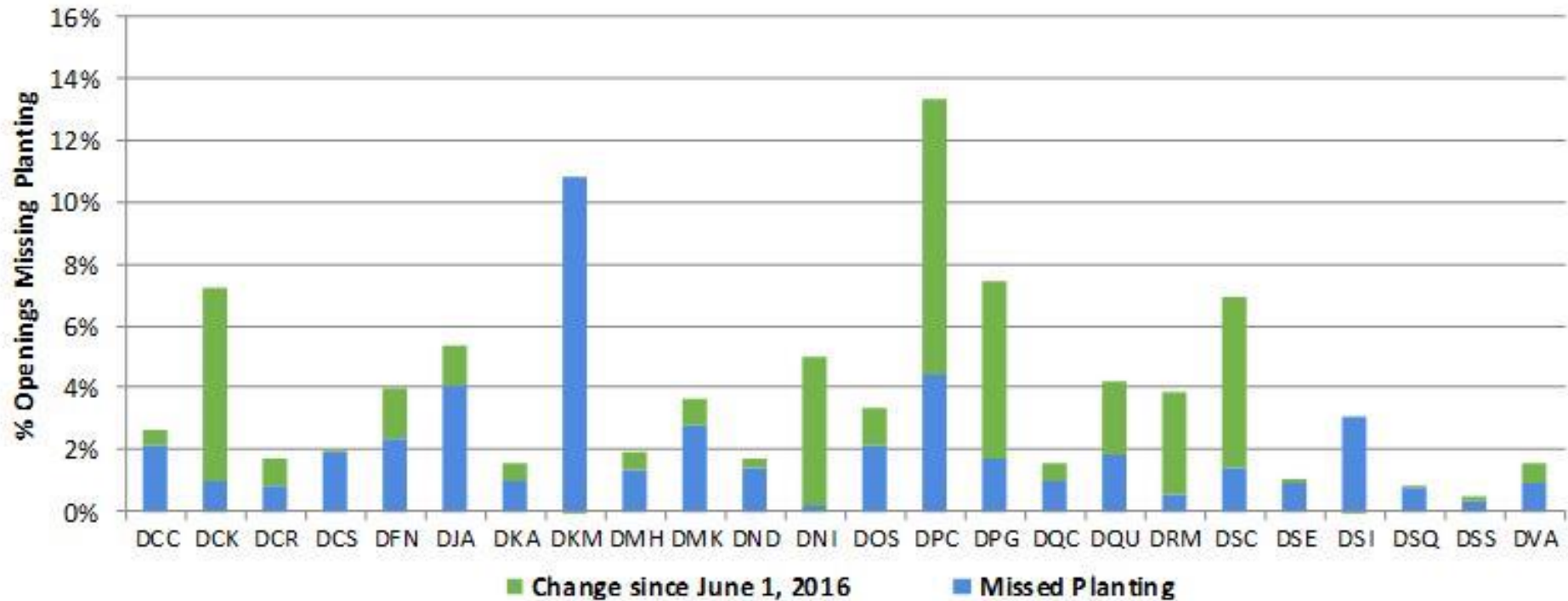
RESULTS Monitoring and QA

RESULTS Openings with Identified Data Quality Issues Since Feb 2012



RESULTS Monitoring and QA

Missed Planting Reporting: % of Priority Openings by District



Questions?

RESULTS Data- Where it fits

