



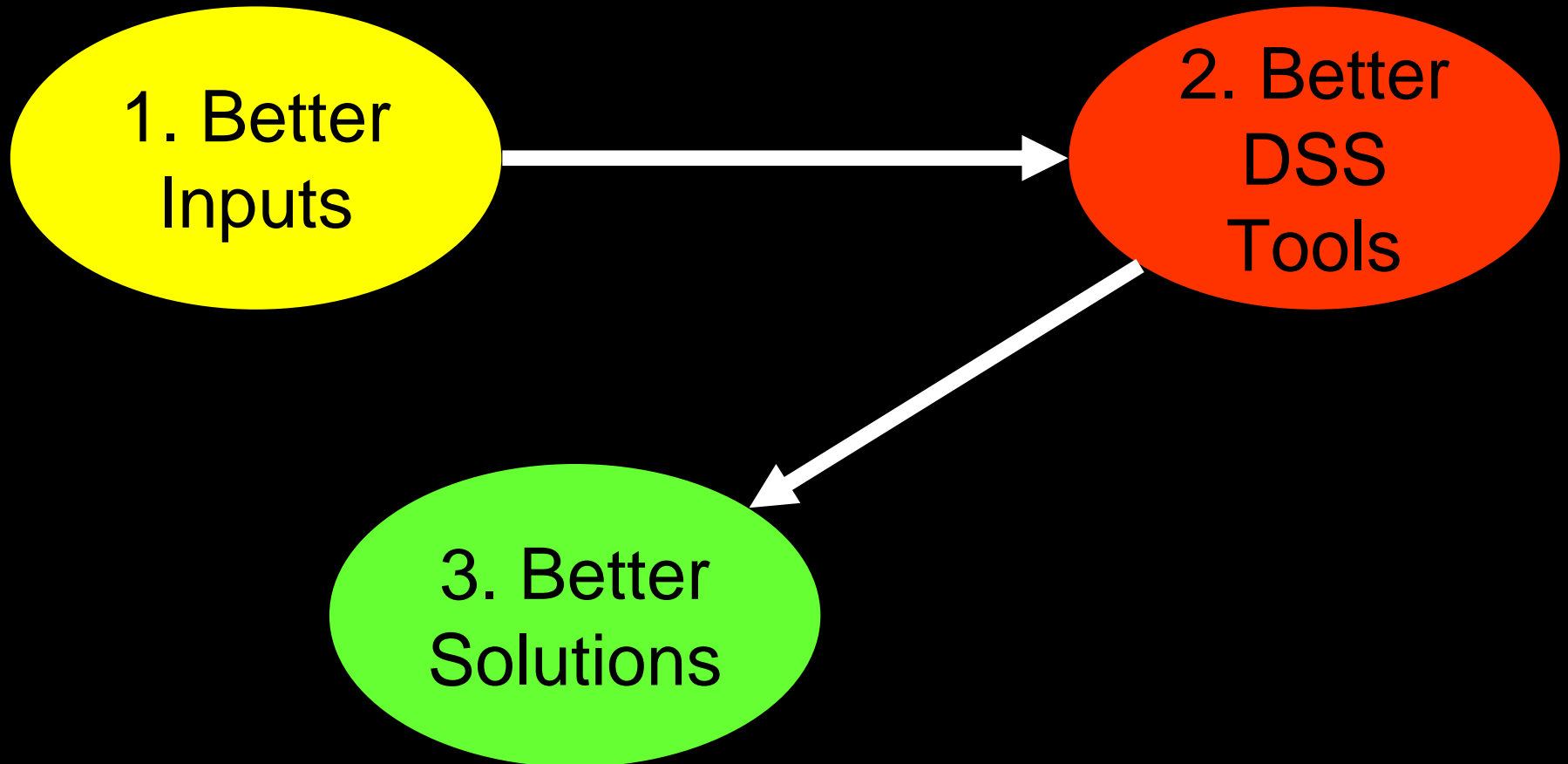
Enhanced planning tools for hardwood forest management

A Value Proposition V.1.0

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NEEDS

For improving our forest management planning we need...



NEEDS

1. Better inputs

- Improved inventory (including grading & product recovery)
- Future market intelligence
- Projection models of growth & quality

NEEDS

2. Better DSS tools

- Better link between short-term and long-term plannings
- More responsiveness to a changing environment
- Better modelling of complex stands and innovative silviculture treatments



NEEDS

3. Better solutions

- Designing long-term scenarios of silviculture regimes
- Optimization of forest management for both a sustainable wood supply and the ecological integrity of the Acadian Forest



APPROACH

1. Roadmap of **future markets** adapted to wood suppliers
2. Gap analysis of **existing G&Y models** for designing the next generation of models
3. **Improvement of FPInterface**
 1. *Modification of stand attributes*
 2. *Inclusion of existing product recovery models*
 3. *Revision of harvest costing?*



APPROACH

4. Gap analysis of existing **long-term planning tools** in regards to HDW management needs.

5. **Testing of new ideas** with long-term planning prototype adapted to HDW management

- *HD Forest inventory*
- *Integration of harvest and road schedulings*
- *Multiple-treatment approach*
- *Optimization of partial cutting prescriptions*

APPROACH

6. Pilot study of ecosystem management planning for the Acadian Forest

- Definition of management issues
- Proposition of innovative silviculture regimes
- Impact assessment on timber supply and ecological landscape

BENEFITS/COSTS

😊 More profitable forest management decisions

😊 Better match between market need and wood production

😊 More sustainable forest management (Green market)

😞 Reduction of AAC ?

😞 Investment in learning new models



Competition

G &Y Models

- FVS
- Samare
- Artemis
- Stamin
- NorthPro
- Forexpert
- ...

Economics

- B.A.U.
- ASEF

DSS Models

- Woodstock
- Patchwork
- Sylvilab
- In-house spreadsheet and GIS tools