

Second Growth and Smallwood Harvesting

Understanding tradeoffs, efficiencies,
investments and prospective outcomes

Current Methods and Equipment on the Tongass

- Tower-based yarding
- Shovel-logging
- Tractor logging



What else is out there

- Chipping and grinding
- Mechanical harvesting equipment
 - Fellerbunchers
 - Single-grip harvesters
- Mechanical processing equipment
 - Stroke delimiters
 - Dangle-head processors
- Well-matched skidding/yarding equipment
 - Grapple rubber-tired and tracked skidders
 - Yoader
 - Other tower-based yarders
- Chipping and grinding

Fellerbunchers



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Fellerbunchers



Felling and in-woods processing - Harvesters



Harvesters



Grapple Skidders



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Forwarders



Yarders and yoaders



For the right price....



Mechanical Processing at the landing: Stroke Delimbers



Dangle-head Processors



Chipping and grinding

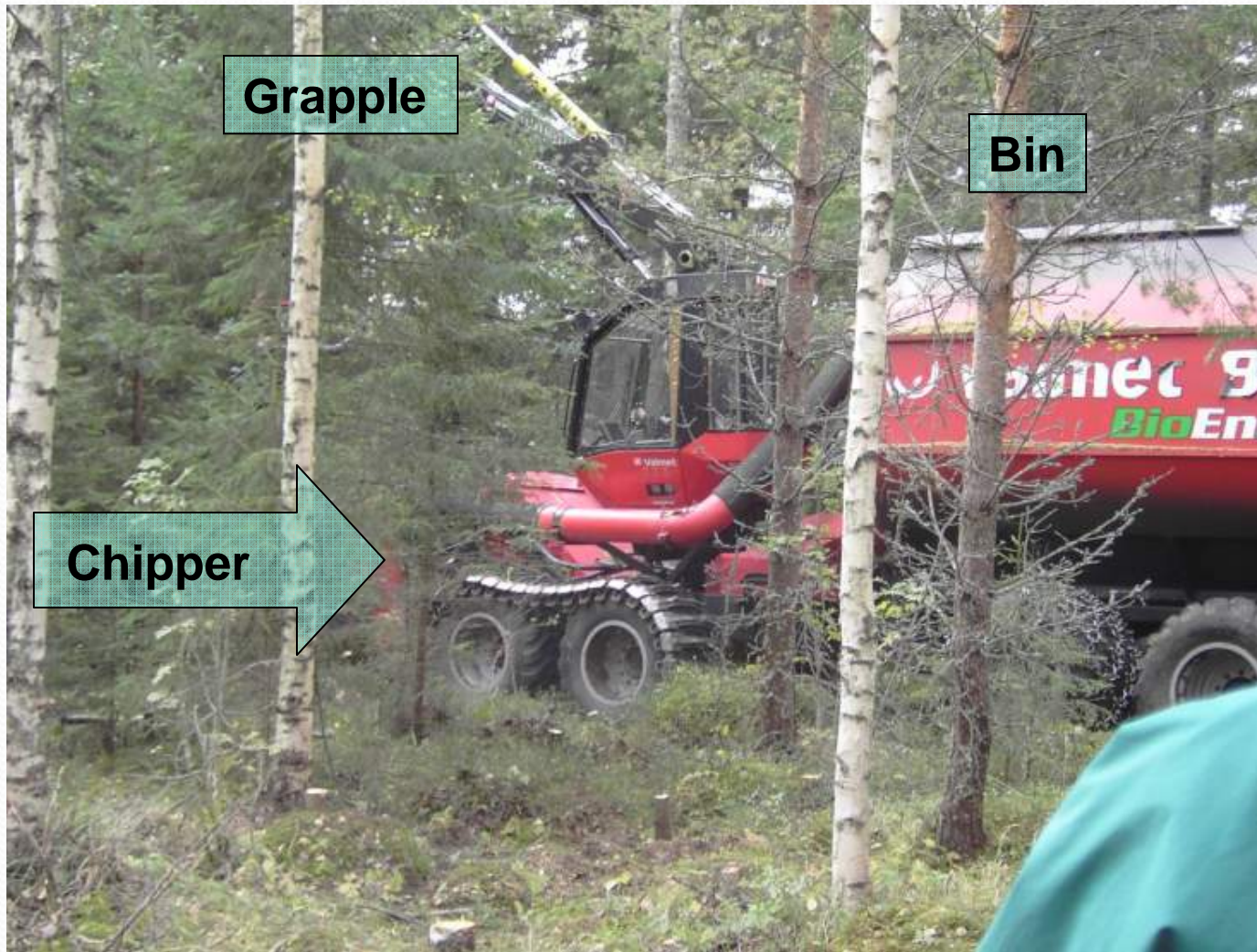


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chipper and bin



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Efficient Smallwood Harvesting Systems from Road Systems

- When the ground allows it, mechanize
 - Fall & bunch, whole-tree skid/yard, process, load
 - Fall and bunch, shovel, process, load
 - Fall and process, skid, load
 - Fall and process, forward, load
 - Fall and process, shovel log, load

Efficient Smallwood Harvesting Systems from Road Systems

- When the ground is too steep (consistently above 40% or sensitive soils).... It's gonna cost you
 - Hand fall, Jammer log, process, load
 - Hand Fall, Yard, process, load
 - Hand Fall, Yoader log, process, load
- Grind or chip as markets dictate

Bottom line...

- It's all about the balance
- Match prescriptions
- Match the ground
- Match the markets
- Match the program of work