IR-DAY2017 Forest Machine Business

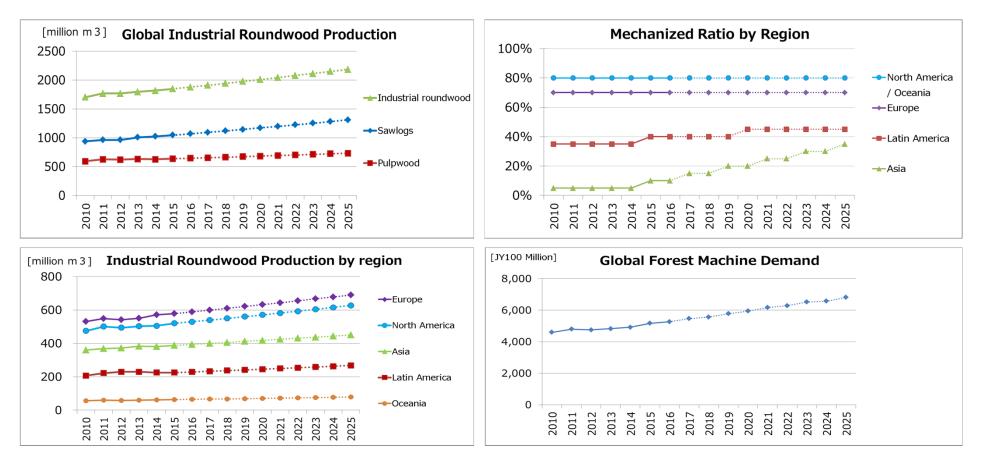
September 15, 2017 Kiyoshi Mizuhara Senior Executive Officer and President, Construction Equipment Marketing Division

KOMATSU Market Demand of Forest Machines

- 1. Global production of industrial roundwood = 1,850 mil. tons in 2015. Will grow 1.7% annually. Estimation = 2,190 mil. tons in $2025.\times 1$
 - Growth rate by product:

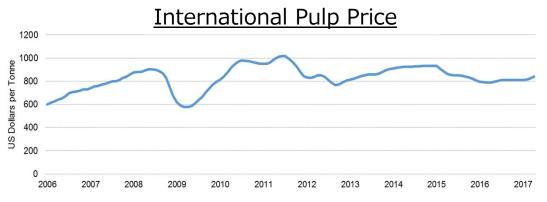
 - Sawlogs & Veneer logs; +2.3% (Global increase in housing starts)
 Pulpwood; +1.4% (Increase in paper production in developing countries. Developed countries =>decreasing)
 - Growth rate by region:
 - Europe; +1.7%, North America; +1.9%, Asia; +1.5%, Latin America; +1.7%, Oceania; +2.2%
- Forestry mechanization ratio by each region: Europe/NA/Oceania ; stable
 Forest machine demand = JY 520 B in 2016. will grow 3.3% annually. Asia: increasing
- - Estimation = 1Y 690 B in 2025.*2

×1 Source: Food and Agriculture Organization of the United Nations (FAO), Komatsu estimate, ×2 Source: Freedonia, Komatsu estimate



KOMATSU Economic indicators for Forest Machine Market 3

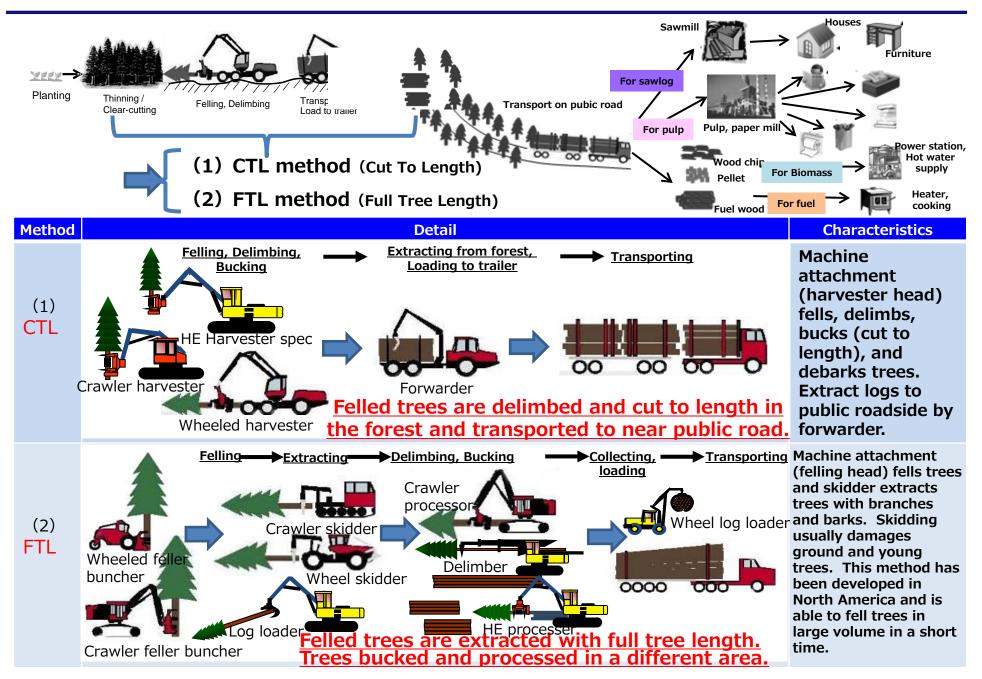
- International pulp price is stable in the past decade except for Lehman aftermath.
 - Consumption increases in emerging countries, decreases in developed countries.
- US housing starts has recovered to pre-Lehman level.



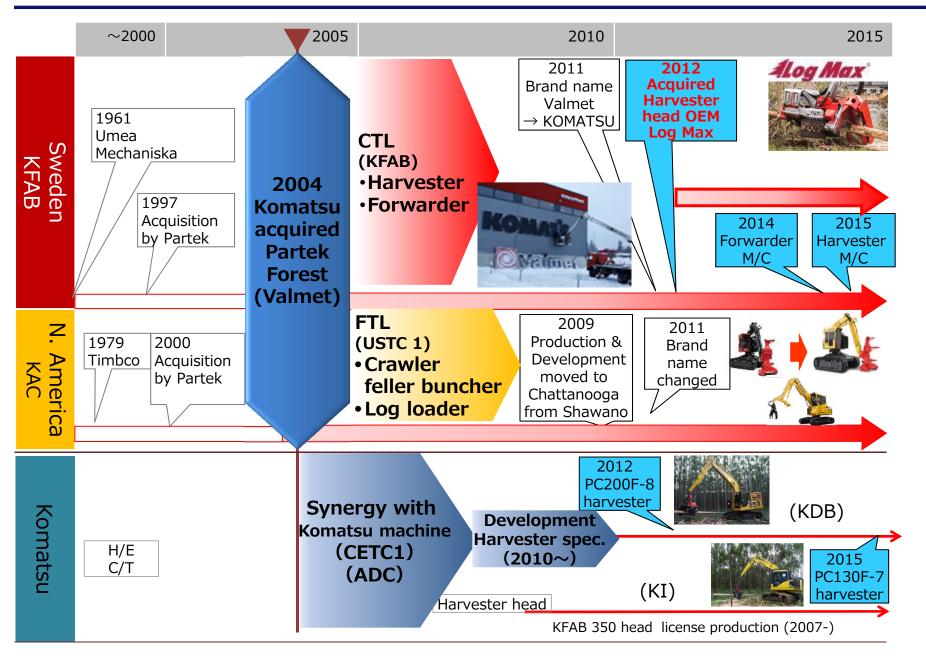
Source: INSEE - National Institute of Statistics and Economic Studies (French national statistics bureau) International prices of imported raw materials - Wood pulp (Chicago) - Index NBSK - Price in US dollars per tonne

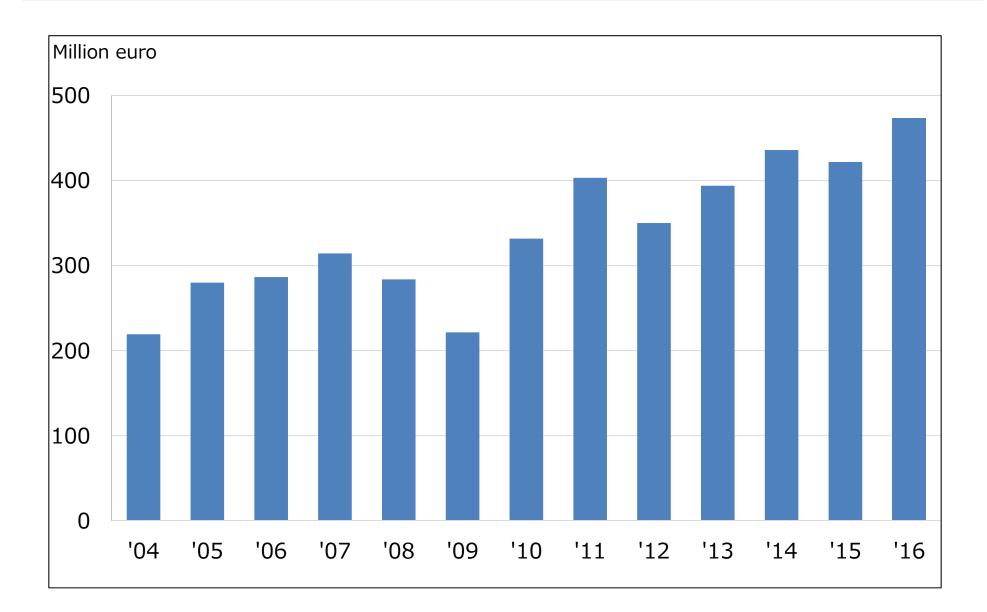


IR-DAY2017 **KOMAT'SU** Image of forestry and harvesting method



KOMATSU History of Komatsu Forest Machine Business 5





KOMATSU

Forest Machine - CTL

Forest machines widely used in Northern Europe



Wheeled harvester

Felling tree and buck tree to make logs on the site. Max 800mm diameter.

Forwarder

Extracting logs after bucking tree from site to public roadside. Max load : 20 tons Average traveling distance : 200 to 300 m

For reducing damage of ground, the machine equip several tire (Max 8 wheels) reducing ground pressure.



KOMATSU

Forest machine - FTL

Forest machines widely used in North America



Feller buncher

Felling trees on the bottom and bunching several trees with felling head.

Skidder

Extracting full length trees skidding on the ground.

- High production extracting several trees at the same time.
- On the other hand, skidding trees might damage ground.



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KOMATSU Forest spec machine based on Excavator

PC200F-8M0 Harvester (Brazil)



PC138US-10 Harvester (Japan)



PC138US-10 Grapple (Japan)



PC130F-7 Harvester (Indonesia)



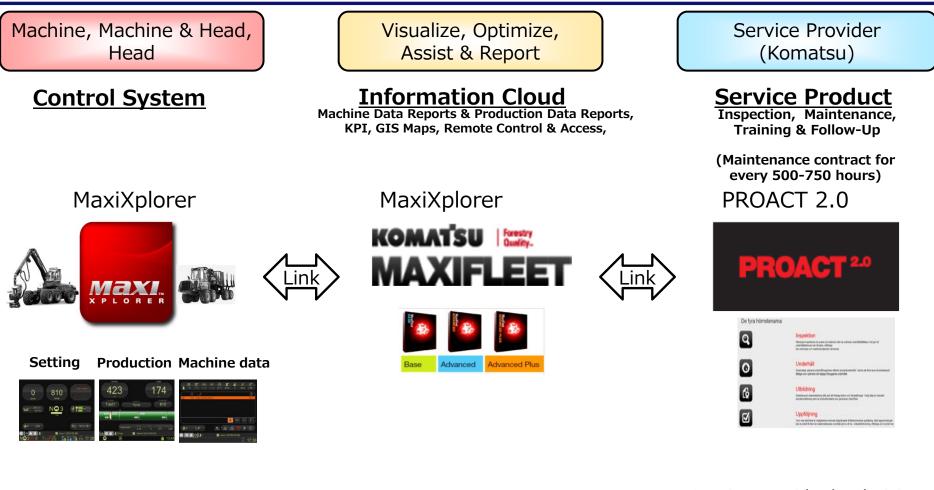
PC130F-7 Feller Buncher (Indonesia)



PC300-8 Swing Yarder (Indonesia)



IR-DAY2017 **KOMATSU ICT by Komatsu Forest** (MaxiXplorer, MaxiFleet, PROACT) 10



Operator



Operator, Machine Owner, Forest company(and Komatsu)

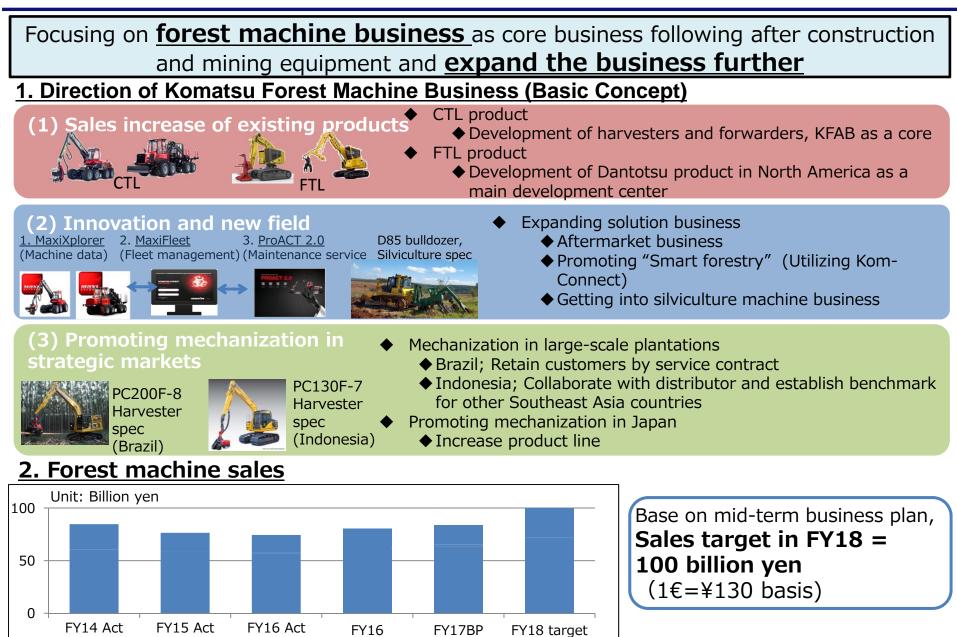


Service Provider/Technician, Operator, Machine owner (and Komatsu)



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€1=130

€1=130

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