

Broadleaf Forestry Research

Dr Ian Short

Forestry Research, CELUP, Ashtown Research Centre



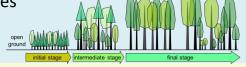
Context

- The national forest estate ≈ 11% of land area.
- Industry main focus is on Sitka spruce
- >¼ of forest area is broadleaf
- Broadleaf planting increased from mid 1990s, planted by private owners
- Broadleaf silviculture knowledge is limited

RMIS project – TranSSFor

Transformation of Sitka spruce stands to Continuous Cover Forestry (CCF)
With UCD and Coillte

- > 50% forest area is Sitka spruce
- Increasing demand for CCF information
- Continuation of a previous DAFMfunded project
- Study impact of three thinning treatments on transformation of stand structure and stand productivity at two sites



RMIS project

Exploitation of the working properties and utilisation of small-diameter Irish-grown alder

With GMIT Letterfrack

- establish the characteristics, properties and utilisation potential of smalldiameter Irish-grown alder
- explore opportunities to add-value

Acknowledgements

Jerry Campion Susie Foreman Derek Gibson Ted Wilson

RMIS project

Group selection and underplanting WOODLAND of ash stands to mitigate ash dieback

- 2 sites (Co. Derry and Johnstown Castle)
- Fell small areas (0.025 0.45 ha)
- Replant with oak, birch and hazel
- Changing light conditions on tree growth



DAFM project – EARTH

Exploitation **A**nd **R**ealisation of **T**hinnings from **H**ardwoods

With NUIG

- Quantify the resource
 - 1st and 2nd thinnings
- Physical and mechanical properties
- Drying schedules
- Durability of thinnings
- · Potential end-uses
- Dissemination





DAFM project – ShortFor

Short Rotation Forestry
With UCD, WIT, UL and TCD

- · Spacing and species suitability
 - Close / wide planting density
 - Eucalyptus / Alder / Sitka spruce / Grand fir / Coast redwood
- Fuel properties characterisation
- Economic & environmental sustainability

Private site owners who facilitate the work DAFM for funding previous 5-year CCF project that established the trial sites

