

E. Kehoe, Teagasc, Kinsealy Research Centre, Dublin, Ireland and

G.Savini & D.Neri, Dipartimento di Energetica, Universisità Politecnica delle Marche, Ancona, Italy





#### **Objectives**

- Reason for doing this work
- Outline first year of work
- Some results
- Future trial work- 3 more years

### Propagation-Ireland

- Ireland-season now from April-Nov
- Cold stored plants are needed for 60day & protected cropping
- Vast majority of plants imported
- Plant quality problems!!

## Propagation-Ireland The future

- A number of new tray plant producers
- And also new bare-root producers
- Large capital investments

### Project objectives-Yr 1

- Establish 1<sup>st</sup> part of production protocol
- Nutrient requirements for 'tray plants'
- Effect of time (date) of harvesting runners on subsequent plant quality
- Runner order
- Growing media

# Materials and Methods Mother plant nursery

- Project began glasshouse- January 2005
- Strawberry cultivar- Super Elite 'Elsanta' at 4 plants m<sup>2</sup>
- 25 litre peat modules with drippers
- Fertigated with standard feed EC 1.8 dSm<sup>-1</sup>
- Black mypex on ground
- Straw mulch and sprinklers



























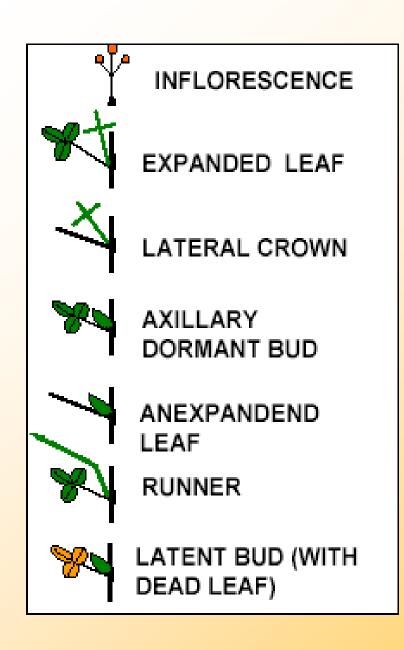


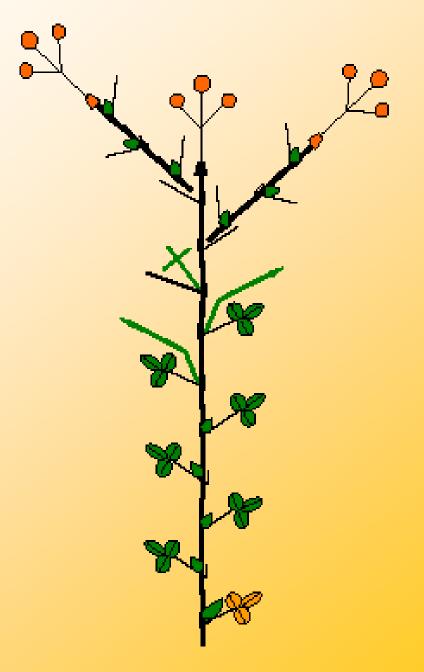




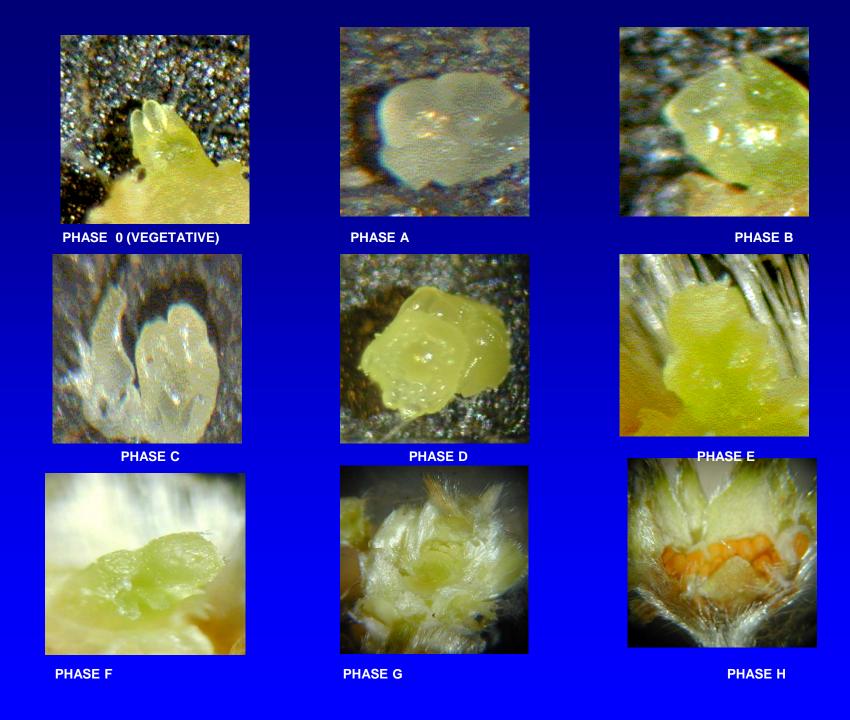


### Year 1 Preliminary Results



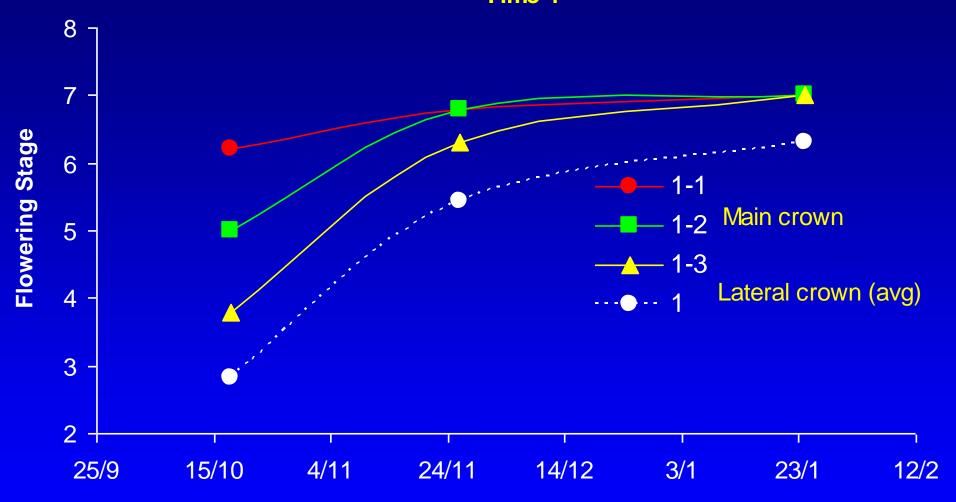


(Savini 2002)

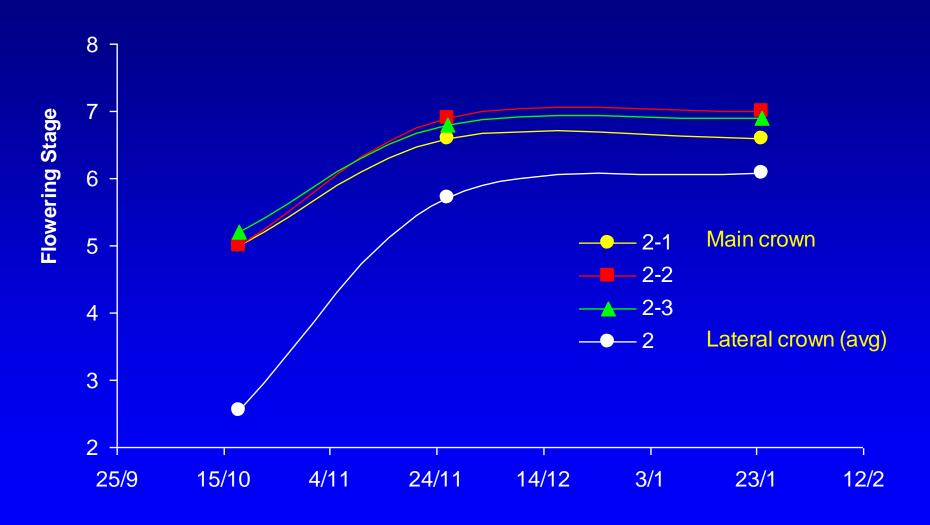


Flowering stage of primary flower (main and lateral crowns)

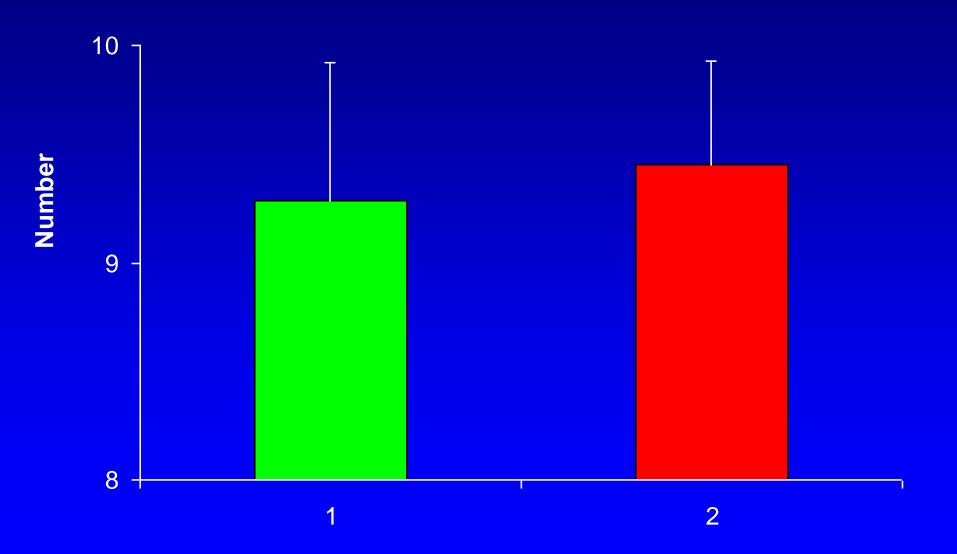
Time 1

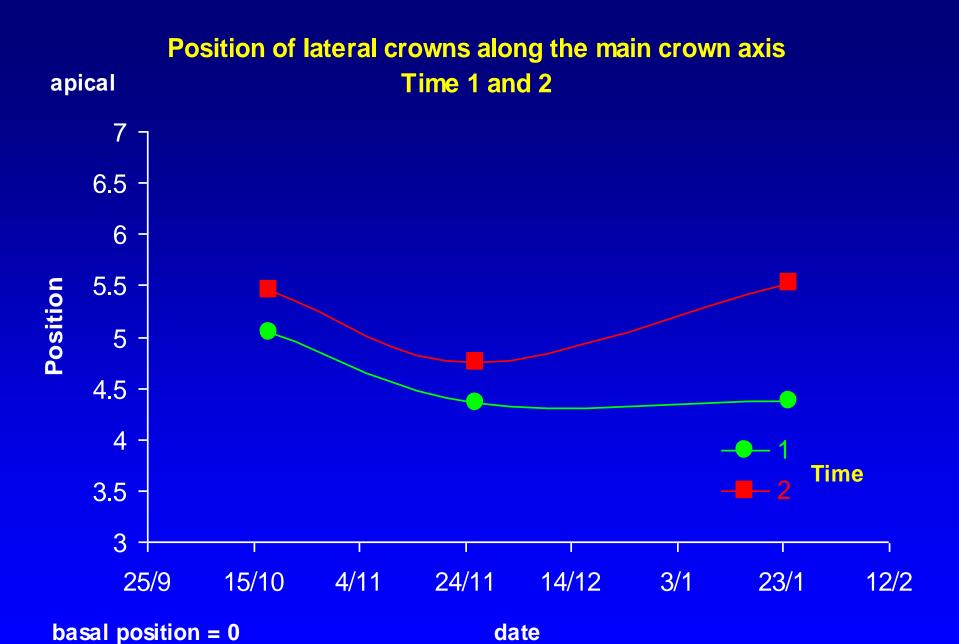


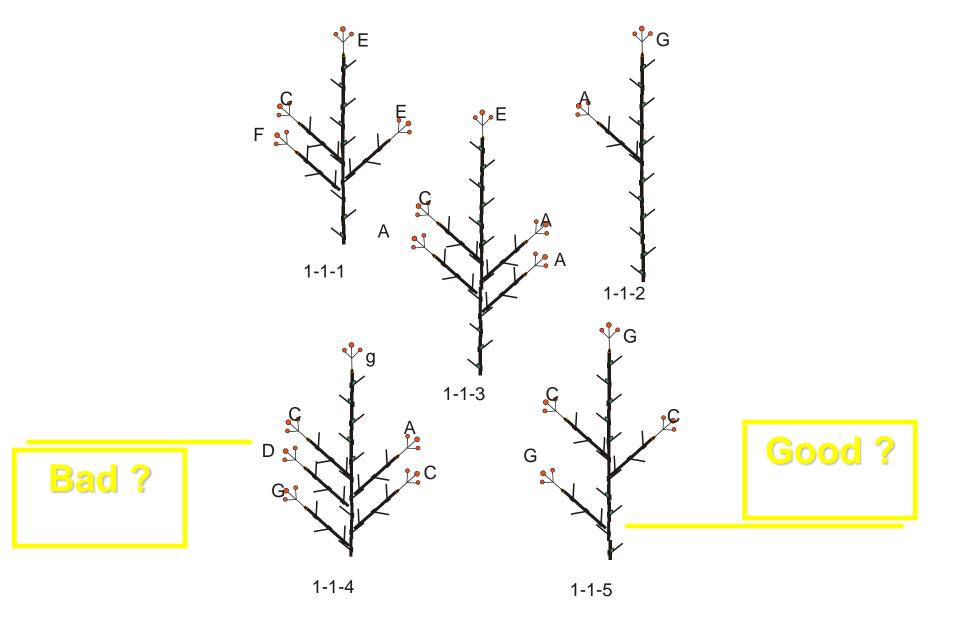
### Flowering stage of primary flower (main and lateral crowns) Time 2



## Number of flowers in apical cluster Time 1 and 2











### Early Conclusions

 Architecture of flower very useful method to determine quality of plant material

Fruit data to come: yield, fruit quality etc.

 Next year(s): adjust timing of taking tips, nutrition and indoor V outdoor plants