



Mini Workshop July 2015

Routes to sustainable displays

Today's Programme

- Right Plant Right Place
- Sustainable Displays – Examples
What plantings are cheaper to maintain?
- Time required to grow, Specifying plants to get what you want and what to watch out for.
- Tour of the nursery – followed by lunch
- BS8545 & Tree planting success
- No fire alarms planned & Phones on silent please



Palmstead team here to help



Peter Curtis
Operations Manager



Simon King
Sales Manager



Denise Buckland
Sales Exec.



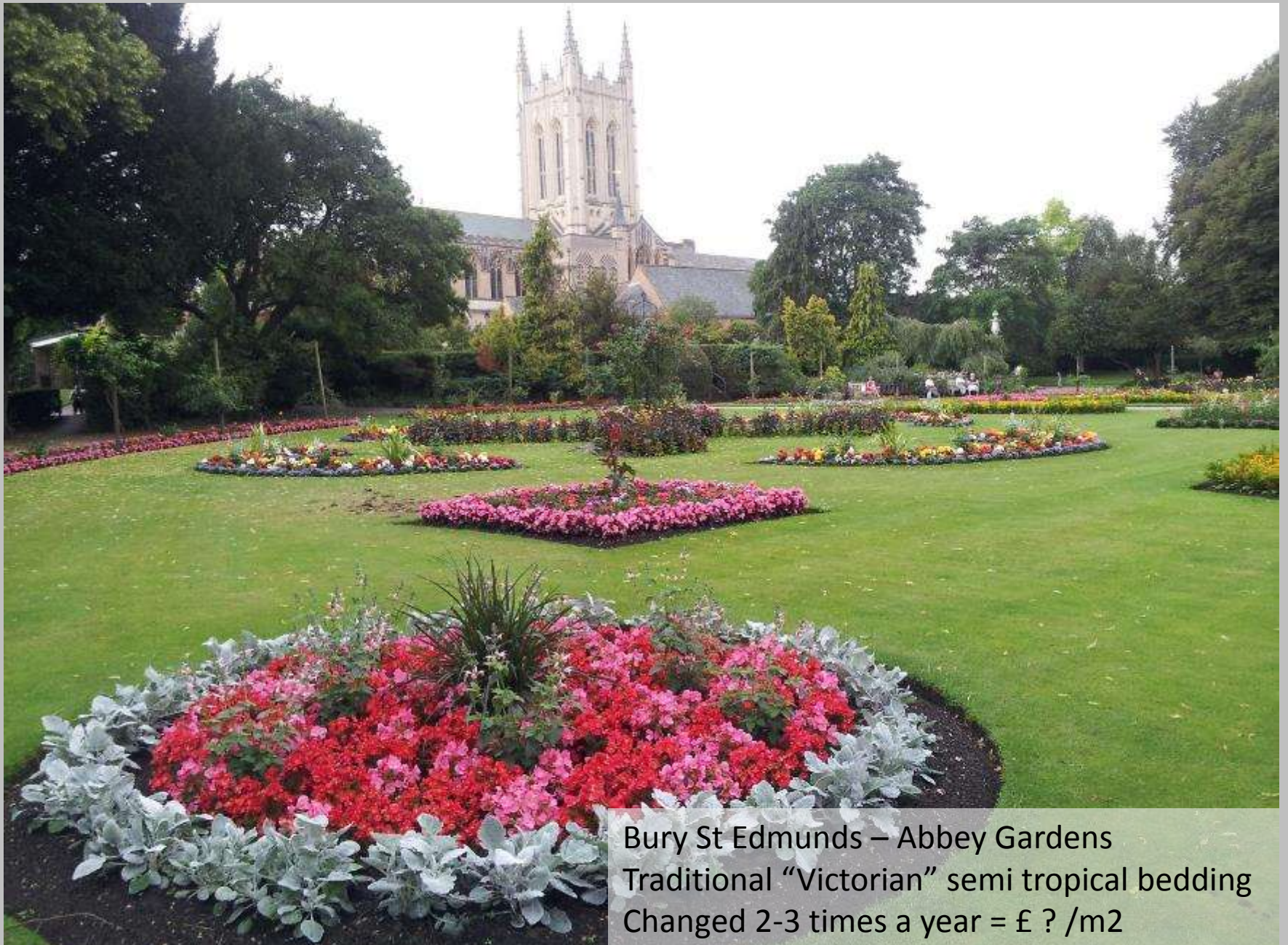
Geoff De la Cour-Baker
Palmstead Plants



Lee Woodcock
Young Plants Manager



Steve Chapman
Production Manager



Bury St Edmunds – Abbey Gardens
Traditional “Victorian” semi tropical bedding
Changed 2-3 times a year = £ ? /m²











Amenity planting - This is what authorities can afford?







Designed for maintenance

- At the 2010 workshop Bert Griffioen outlined his low maintenance planting. **Perennial Bedding**
- Intensive soil preparation
- Dense planting of perennials in blocks @ 7-9/m²
- Limited range of plants – succession of display.
- Developing closed canopy by June.
- Flailed down each year in Feb.
- Popular in Holland -increasing by 25% per year
- **Annual maintenance costs of £1.55 /m²/year**
- Gavin Jones are UK agents with their “Impact Planting” and will be contributing a benchmark example



Aster, Persicaria, Rudbeckia Goldsturm,



Phlox russeliana, Hemerocallis, Nepeta
Walkers Low, Rudbeckia Goldsturm,
Sedum Herbstfreude



Phlomis russeliana, Hemerocallis, Nepeta Walkers Low,
Anemone japonica Hon Jobert,
Rudbeckia Goldsturm,
Sedum Herbstfreude



Flail down in February



Nieuwerkerk - one mile of perennials

Zoeterwoude – close to the Heineken Brewery



Echinacea purpurea,
Nepeta Walkers Low,
Aster, Phlomis russeliana,
Salvia Mainacht,
Hemerocallis



Geranium & Aster Monch + Hydrangea pan.
Litter tends to be blown over not snagged

Phlomis russeliana, Hemerocallis,
Nepeta Walkers Low,





December

Item Description	Planting type	Form	Quantity per M2
Actaea simplex Atropurpurea Group	Islands	2 litre	
Ajuga reptans 'Catlin's Giant'	Groundcover	2 litre	8 - 10
Alchemilla mollis	Groundcover	2 litre	8 - 10
Anemone x hybrida 'Honorine Jobert'	Groundcover	2 litre	8 - 10
Anemone x hybrida 'Konigin Charlotte'	Groundcover	2 litre	8 - 10
Anemone x hybrida 'September Charm'	Groundcover	2 litre	8 - 10
Aster novi-belgii 'Early Blue'	Groundcover	2 litre	8 - 10
Aster x frikartii 'Mönch'	Groundcover	2 litre	8 - 10
Brunnera macrophylla	Groundcover	2 litre	8 - 10
Echinacea purpurea 'Magnus'	Islands	2 litre	
Evergreen Shrubs	Islands		
Geranium endressii	Groundcover	2 litre	8 - 10
Geranium macrorrhizum	Groundcover	2 litre	8 - 10
Geranium x cantabrigiense 'Biokovo'	Groundcover	2 litre	8 - 10
Grasses	Islands	2 litre	
Helleborus argutifolius	Groundcover	2 litre	8 - 10
Helleborus orientalis = x hybridus	Groundcover	2 litre	8 - 10
Hemerocallis 'Aten'	Groundcover	2 litre	8 - 10
Hemerocallis 'Frans Hals'	Groundcover	2 litre	8 - 10
Hemerocallis 'Stella de Oro'	Groundcover	2 litre	8 - 10
Heuchera 'Plum Pudding'	Groundcover	2 litre	8 - 10
Lamium galeobdolon 'Florentinum'	Groundcover	2 litre	8 - 10
Lavandula angustifolia 'Hidcote'	Groundcover	2 litre	8 - 10
Lavandula angustifolia 'Munstead'	Groundcover	2 litre	8 - 10
Lavandula angustifolia	Groundcover	2 litre	8 - 10
Liatris spicata	Groundcover	2 litre	8 - 10
Liriope muscari	Groundcover	2 litre	8 - 10
Nepeta racemosa 'Walker's Low'	Groundcover	2 litre	8 - 10
Persicaria affinis 'Darjeeling Red'	Groundcover	2 litre	8 - 10
Persicaria amplexicaulis 'Firetail'	Groundcover	2 litre	8 - 10
Persicaria bistorta 'Superba'	Groundcover	2 litre	8 - 10
Phlomis russeliana	Groundcover	2 litre	8 - 10
Pulmonaria 'Blue Ensign'	Groundcover	2 litre	8 - 10
Pulmonaria 'Sissinghurst White'	Groundcover	2 litre	8 - 10
Rudbeckia fulgida var. sullivantii 'Goldsturm'	Groundcover	2 litre	8 - 10
Salvia x sylvestris 'Mainacht'	Groundcover	2 litre	8 - 10
Sedum 'Herbstfreude'	Groundcover	2 litre	8 - 10
Sedum telephium 'Matrona'	Groundcover	2 litre	8 - 10
Stachys byzantina 'Silver Carpet'	Groundcover	2 litre	8 - 10
Vinca major 'Variegata'	Groundcover	2 litre	8 - 10
Vinca major	Groundcover	2 litre	8 - 10



Bedding annuals

Tagetes Lemon Gem
Tagetes Tangerine Gem

Grasses

Calamagrostis acutiflora
Miscanthus Ferner Osten
Miscanthus Zebrinus

Perennials

Echinacea purpurea
Helenium Moerheim Beauty
Helenium Riverton Gem
Monardia Cambridge Scarlet
Phlox paniculata - Orange
Polemonium pulcherrimum
Rudbeckia Goldquelle
Salvia sylvestris Mainacht
Sedum Ruby Glow
Stachys macranths Superba
Tanacetum Brenda

**Little interest over winter
when Green not visited**

Portsmouth – Drayton Pk Bowling Green Trial Beds

Noel Kingsbury's “matrix” planting in Bristol



2 years after planting

6 years after planting





10 years after
planting



Phlox
russeliana

Nepeta
6hills /
Walkers Low



Phlomis russeliana
Crambe cordifolia
+ ? Lamium



Rudbeckia
Euphorbia Fens
Ruby
+? Lamium
3 years after
planting

Suggested Matrix mix @ 8-9 plants/m²

For an example 10 metres square – 9-10 of each:

Aquilegia vulgaris

Aster 'Little Carlow'

Geranium endressii, or *G. phaeum*, or *G. pratense*

Iris sibirica

Nepeta x faassenii

Phlomis russeliana

Primula elatior

Silene dioica

Solidago rugose

plant in 3's or 5's

PERENNEMIX® FLOWER HAZE

German developed mixes for open sites
 Planting 8.5 /m2 + bulbs (15-20/m2)
 Mulched with gravel/grit 8mm 5cm deep
 Some mixes OK with organic mulch
 Irrigated on planting

Short mowing in late winter.
 After several years (if too dense)
 a mowing at 15cm height in June

Maintenance demand
 4.2 man minutes/m2/year (on site)

Composition for 10 m²		
Dominant perennials		
5	<i>Calamagrostis x acutiflora</i> 'Overdam'	Feather Reed Grass
Companion perennials		
10	<i>Achillea</i> 'Schwellenburg'	Yarrow/Milfoil
10	<i>Aster novae-angliae</i> 'Purple Dom'	New England Aster
6	<i>Linaria purpurea</i>	Purple Toadflax
10	<i>Papaver lateritium</i> 'Plena' alternatively: 3 <i>Papaver orientale</i> 'Markus Perry' or 'Spätzünder'	Armenian Poppy or Oriental Poppy
10	<i>Salvia nemorosa</i> 'Mainacht'	Woodland Sage
Ground covering perennials		
6	<i>Anaphalis triplinervis</i> 'Silberregen'	Pearly Everlasting
10	<i>Aster ericoides</i> 'Snowflurry'	White Heath Aster
6	<i>Euphorbia cyparissias</i> 'Fens Ruby'	Cypress Spurge
10	<i>Gypsophila</i> 'Pink Star' or 'Rosenschleier'	Baby's Breath
Bulbs		
10	<i>Allium aflatunense</i> 'Purple Sensation'	Decorative Onion
50	<i>Anemone blanda</i> 'Blue Shades'	Blue Windflower
50	<i>Crocus flavus</i>	Yellow Crocus
100	<i>Eranthis hyemalis</i>	Winter Aconite
50	<i>Muscari armeniacum</i> 'Christmas Pearl'	Grape Hyacinth
50	<i>Tulipa praestans</i> 'Fusilier'	Orange Tulip



City of London – Barbican Roof Garden
40,000 plants & bulbs 8-9/m² matrix planting,
set out by designer
Roof garden substrate = crushed brick soil





Berkeley Homes – South Quay Plaza Marketing Garden
LAST MINUTE – 30m2 700 plants= @ 23/m2 = £4K
Designers visit nursery Friday, deliver Tuesday,
Launch event Wednesday

Benchmarks

- Examples of good maintenance with known inputs
- Allowing a calculation of man hours /100m²/year
- Building a library of downloadable benchmarks will be on our website



Other ways for injecting colour



Bulbs



“It's unwise to pay too much,
but it's worse to pay too little.

When you pay too much,
you lose a little money - that's all.

When you pay too little, you sometimes lose
everything, because the thing you bought was
incapable of doing what it was bought to do.”

John Ruskin

DAFFODILS

8/10 cm.

10/12 cm

9cm Ø is size to
plant and grow on
for sale. 50% may
flower



12/14 cm

14/16 cm



12-14cm Ø size
2-3 flowers / bulb

Machine bulb planting



Good site survey – NO Cables, Soil depth 25cm
Don't attempt in dry compacted soil.



Specification - Know the pot sizes and expected plant heights.
Use National Plant Specification to reduce ambiguity.



NPS = www.gohelios.co.uk

What Planting densities to achieve closed canopy ?

On the tour...We will experiment with spacing for different pot sizes 2/3 litre, 5 and 10 litre.

Plants for a purpose

Maritime sites, Shade, Chalk, Rabbit and Deer resistant.

Specifying plants with the National Plant Specification

Good and bad examples

Seasons for planting



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**Landscape
Institute**

Trees

General & name
Form
Age / condition or times transplanted
Overall height
Clear stem height
Girth
Root protection
Container grown plants
Number of breaks / branches
Other details
Summary page
Plant list



Shrubs

General & name
Age / condition or times transplanted
Overall height
Root protection
Size of container
Habit
Min no. breaks / branches
Roses
Other details
Summary page
Plant list



Bamboos

General & name
Overall height
Root protection
Size of container
Habit
Min no of canes / culms / shoots
Summary page
Plant list



Herbaceous plants

General & name
Root protection
Size of container
Minimum spread
Number of buds
Method of propagation
Other details
Summary page
Plant list



Herbaceous bulbs

General & name
Grade / circumference
Condition
Other details
Summary page
Plant list



Climbers

General & name
Overall height
Root protection
Size of container
Habit
Min no of breaks / shoots
Cane or framework
Other details
Summary page
Plant list



Conifers

Wildflowers



How long does it take to grow a plant?

[illegible]



Prestigious office
development

Quality woodland
environment

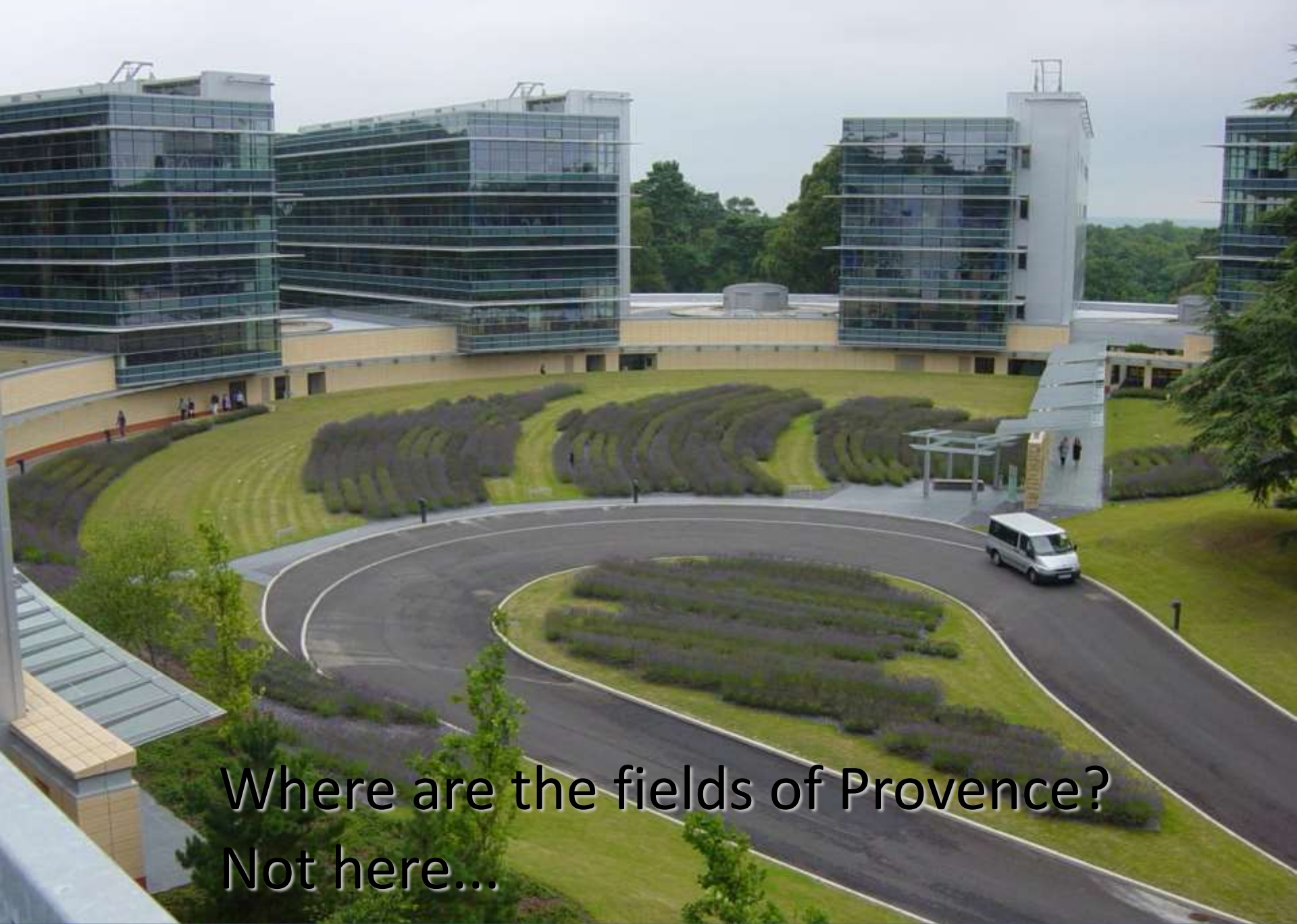
Candidate for BALI
Landscape Award





Working in fields of lavender...





Where are the fields of Provence?
Not here...

Plant Substitution

- More than one variety of Lavender
- Nurseries grow speculatively
- Landscapers order at short notice
- Plants not always available and so substituted with or without notice
- Theme plants for a phased scheme can be substituted at each phase with loss of design and fitness for purpose
- **So do plan procurement ahead please**

Nursery tour



Thank you – any questions