



The Urban Tree Puzzle

Getting the pieces in place for successful tree plantings



Our Urban Trees must succeed

Our Urban Trees succeed when they are healthy and grow to be big enough and grow for long enough to do the job for which they were intended.

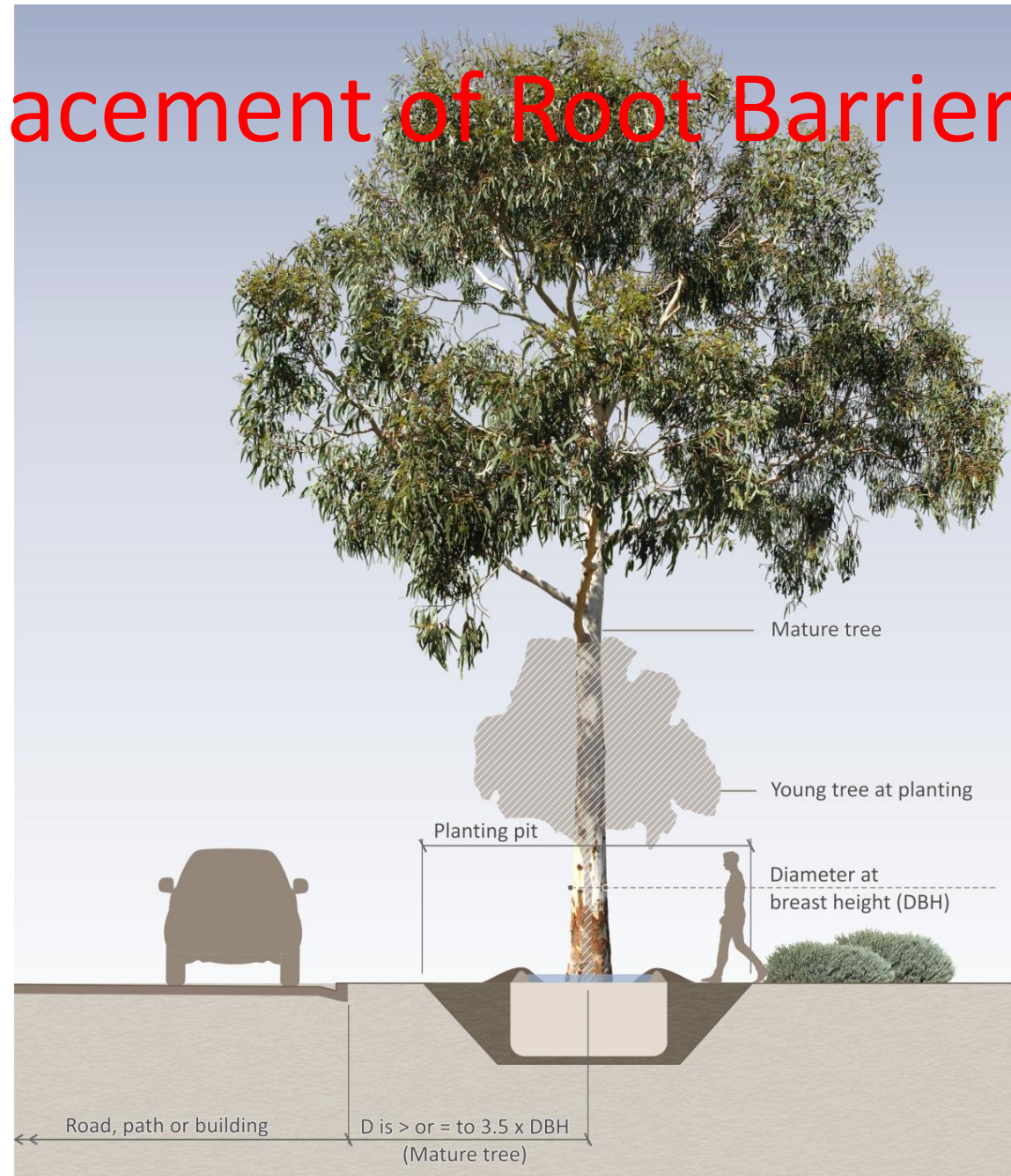
PLANNING



Planning (and design)

Planning also involves; species selection, provision of resources and ensuring that suitable stock is available.

Placement of Root Barriers

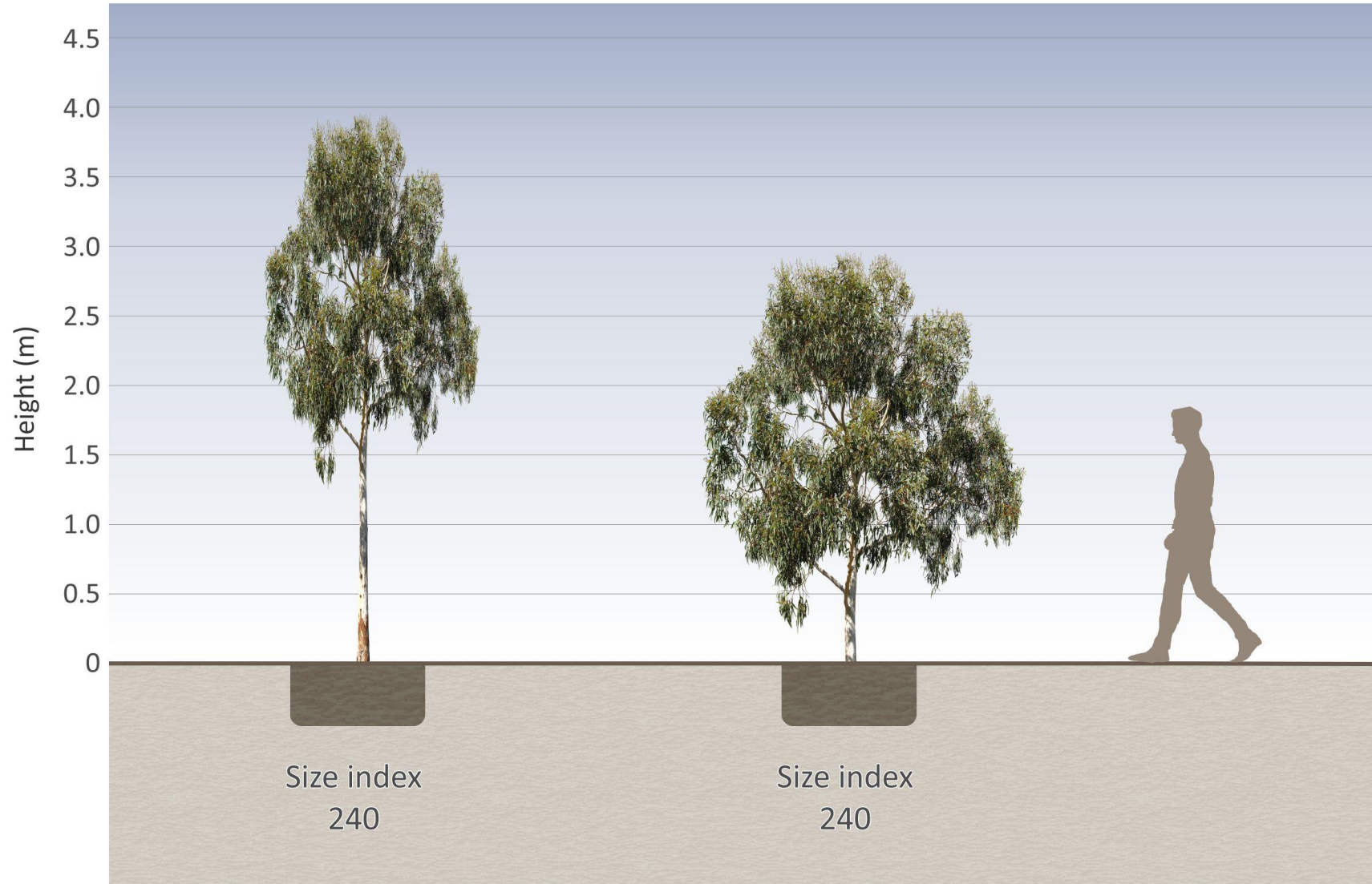


The image features two interlocking puzzle pieces on the left side, set against a background of dense, sunlit green foliage. The top puzzle piece is dark green and contains the word 'PLANNING' in white, bold, sans-serif capital letters with a blue drop shadow. The bottom puzzle piece is also dark green and contains the word 'SPECIES' in the same white, bold, sans-serif capital letters with a blue drop shadow. The foliage in the background consists of many small, oval-shaped leaves, creating a textured, layered appearance with varying shades of green and some brown branches visible.

PLANNING

SPECIES

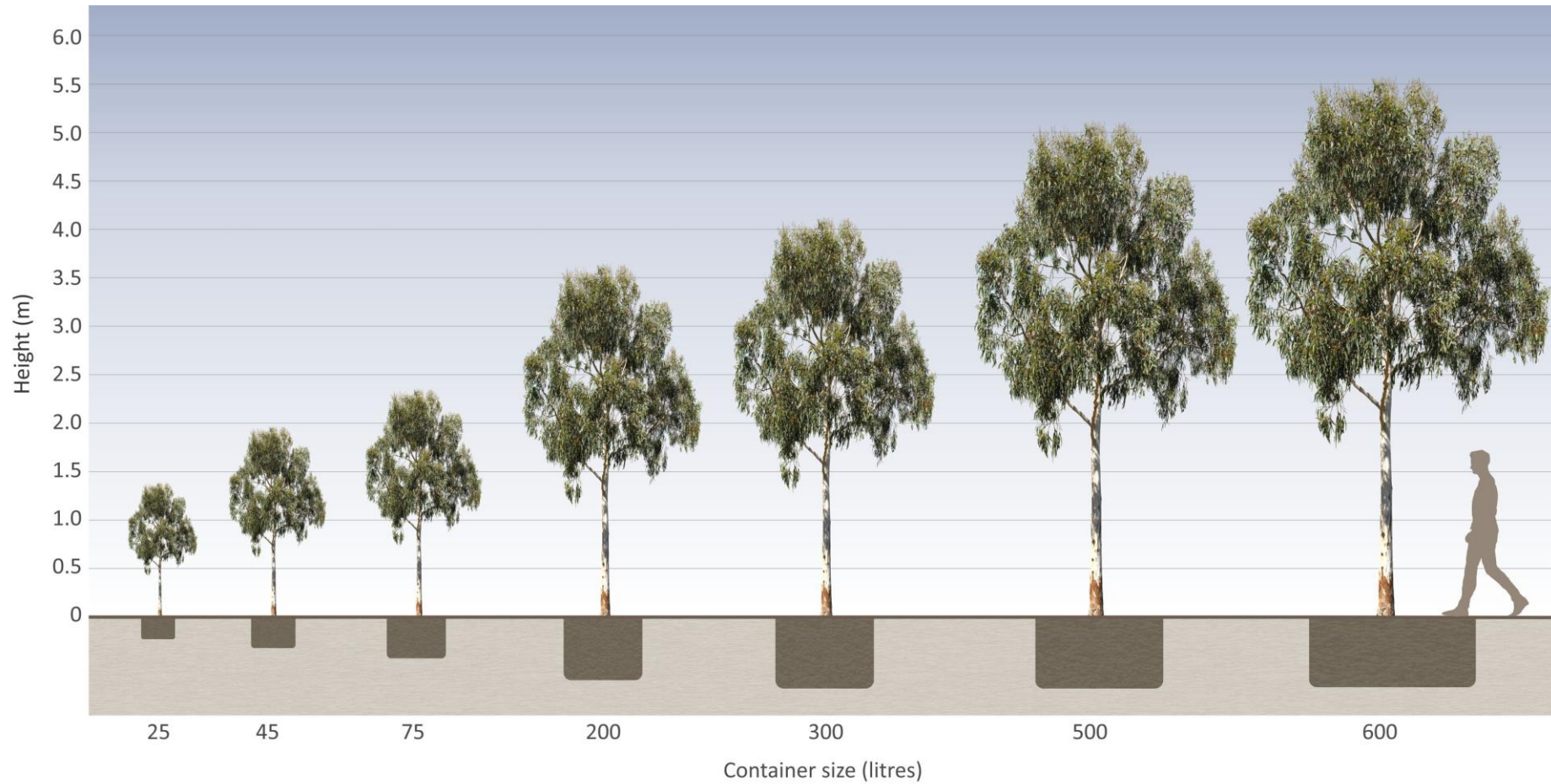
Suit design aims and objectives




Suit site conditions



Need to be available





PLANNING

SPECIES

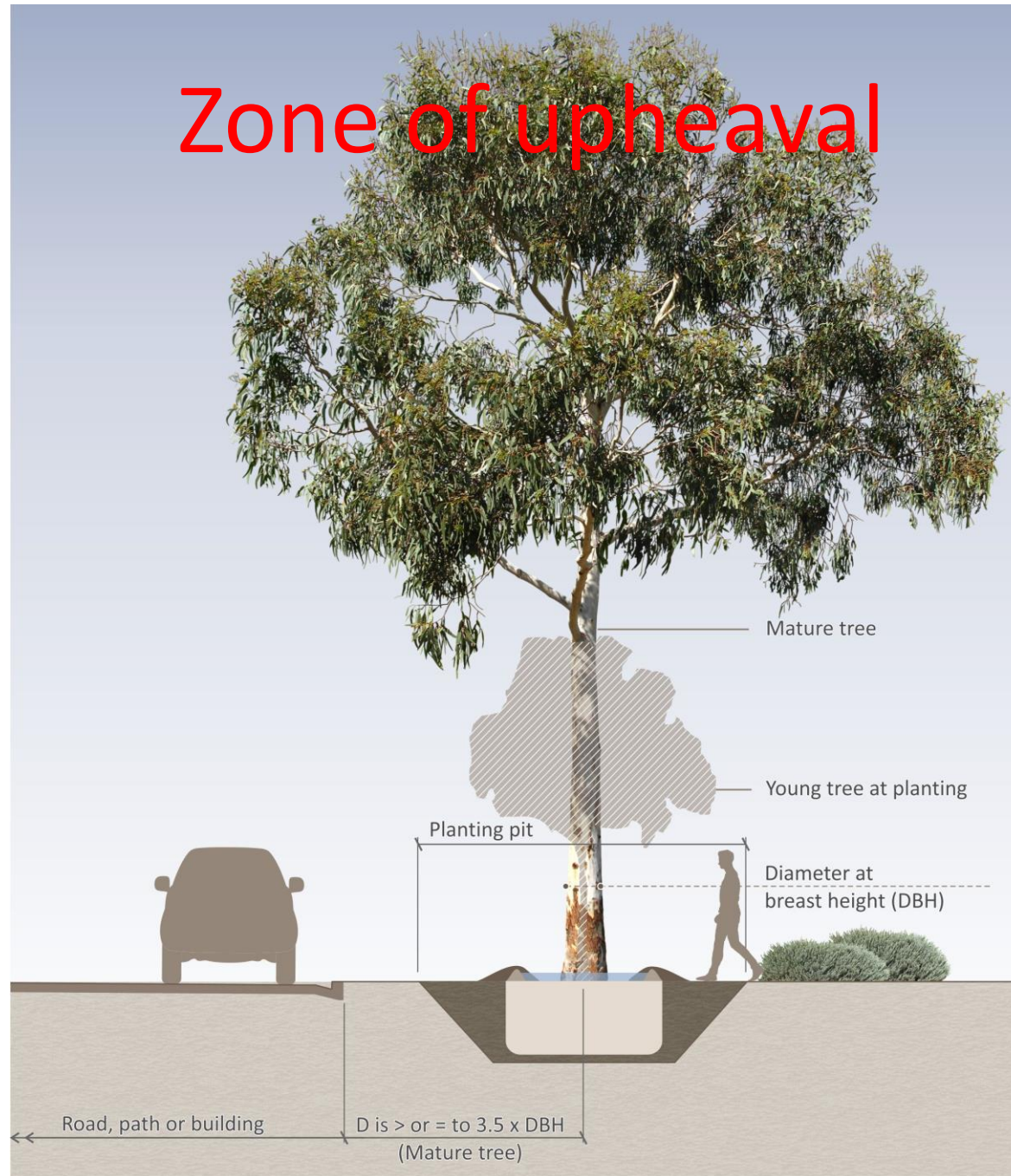
PROVISION

Provision of resources

Access to sufficient soil volumes

$$\text{Soil Vol (m}^3\text{)} = \text{FSI (-:- 100)}$$

Zone of upheaval



No room and no soil



Access to sufficient soil volume



Insufficient soil available





PLANNING

STOCK

SPECIES

PROVISION

Stock planted = Foundation

All tree growth (above and below-ground) is by extension.

We need to plant trees that look like this:



And not like this:



With root systems that look like this:



And not like this:

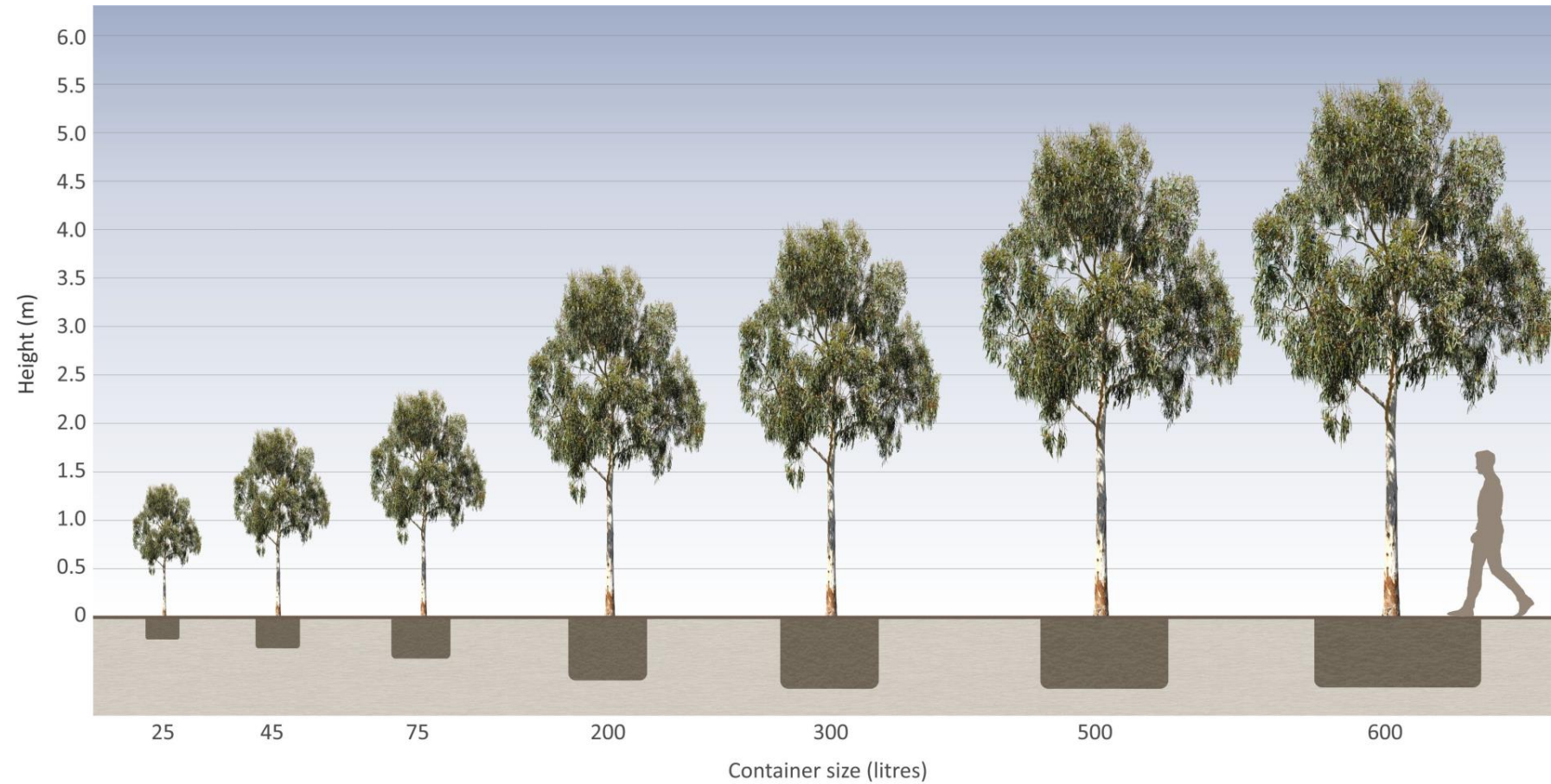


AS 2303:2018

Tree stock for landscape use
our new standard for trees



Stock Size and Availability









PLANNING

STOCK

SPECIES

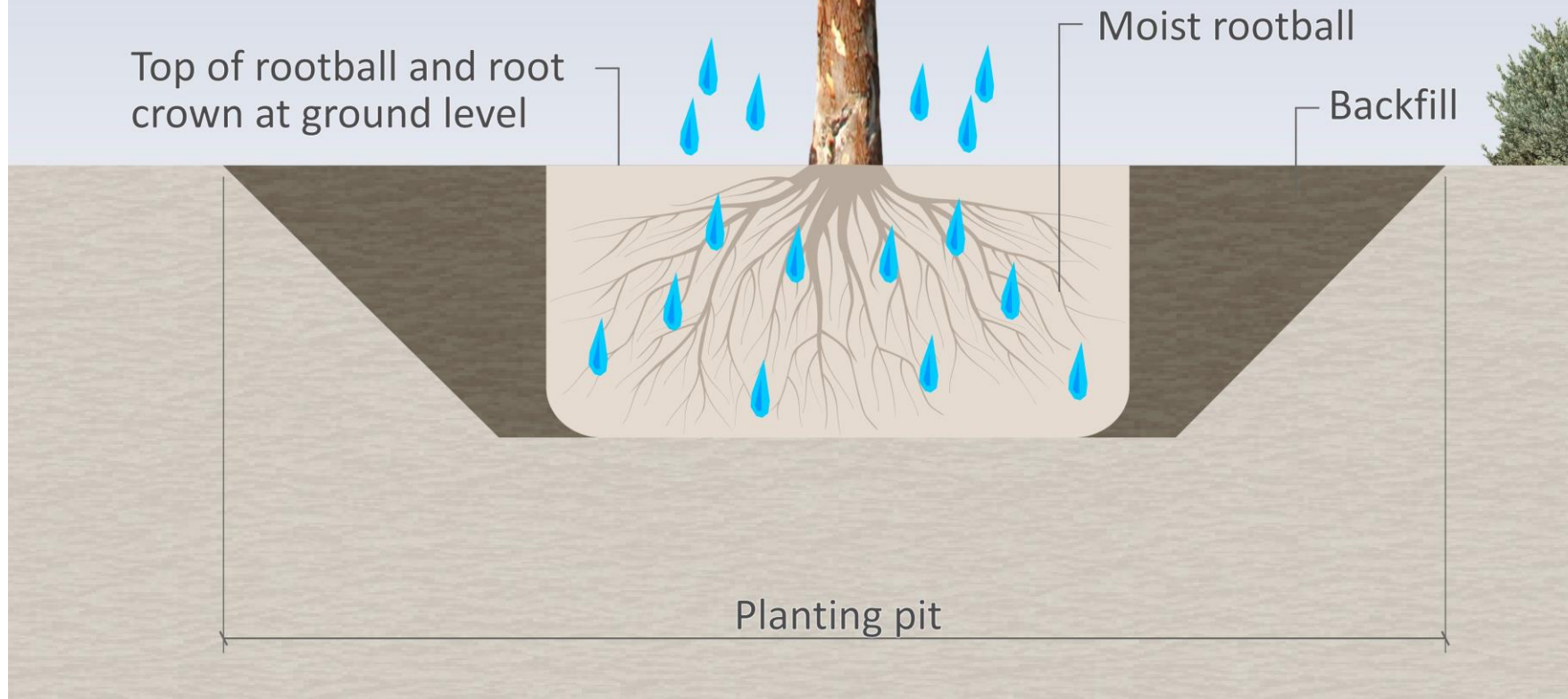
PLANTING

PROVISION

Planting is the final potting

- Planting pit design must provide for the trees long-term
- Planting holes need to provide for the short-term and the long-term

Root crown at ground level







PLANNING

STOCK

SPECIES

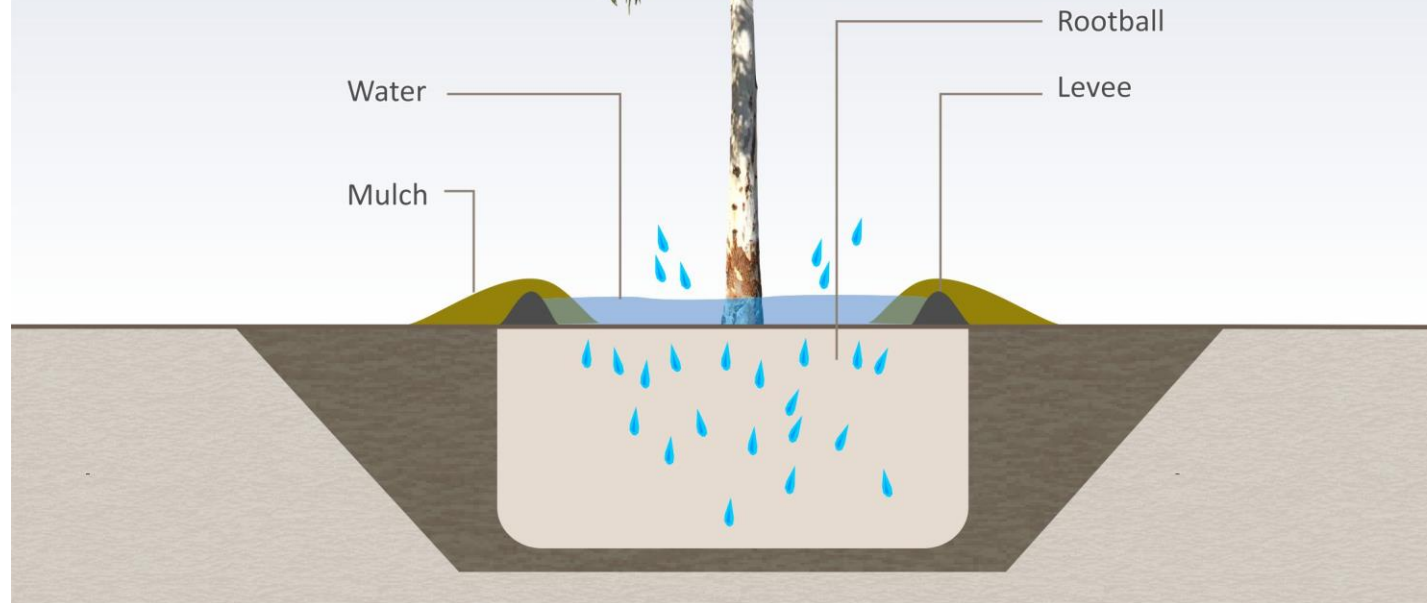
PLANTING

PROVISION

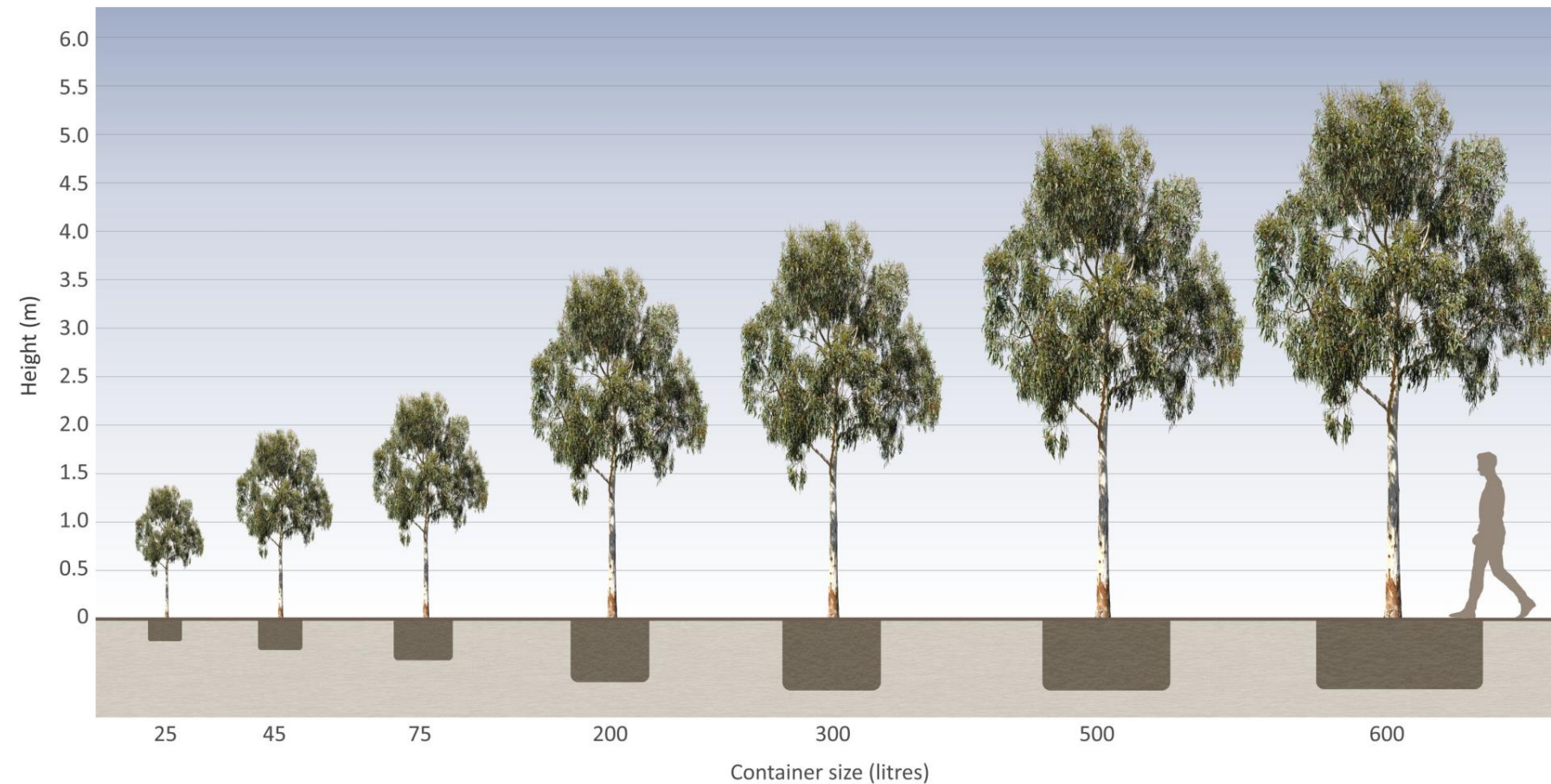
**ESTABLISHMENT
& MAINTINENCE**

Establishment & Maintenance

Watering:



Formative pruning; Protection; Support





PLANNING

SPECIES

PROVISION

COMMUNICATION

STOCK

PLANTING

**ESTABLISHMENT
& MAINTINENCE**

Climate change

(Rate of Climate Change)

Climate Change makes our new urban trees all the more important and ensuring their success becomes an even bigger challenge.

The Law of the Mimimum

“Growth is dictated, not by the total resources available, but by the scarcest resource (limiting factor). “



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