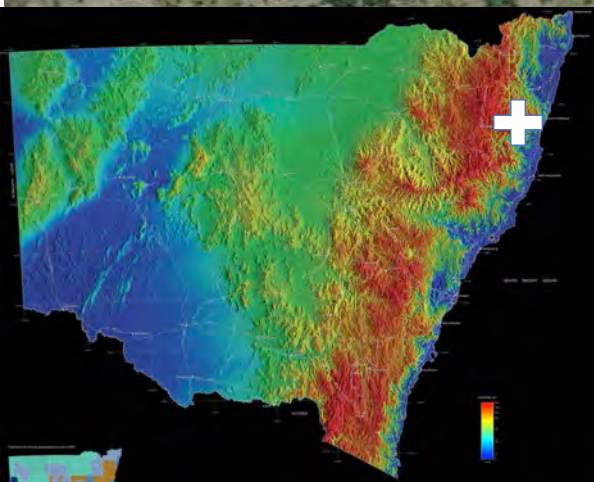


DORRIGO PLATEAU'S WEEDY PRIVET LEGACY OR LANDSCAPE-SCALE RESTORATION OPPORTUNITY

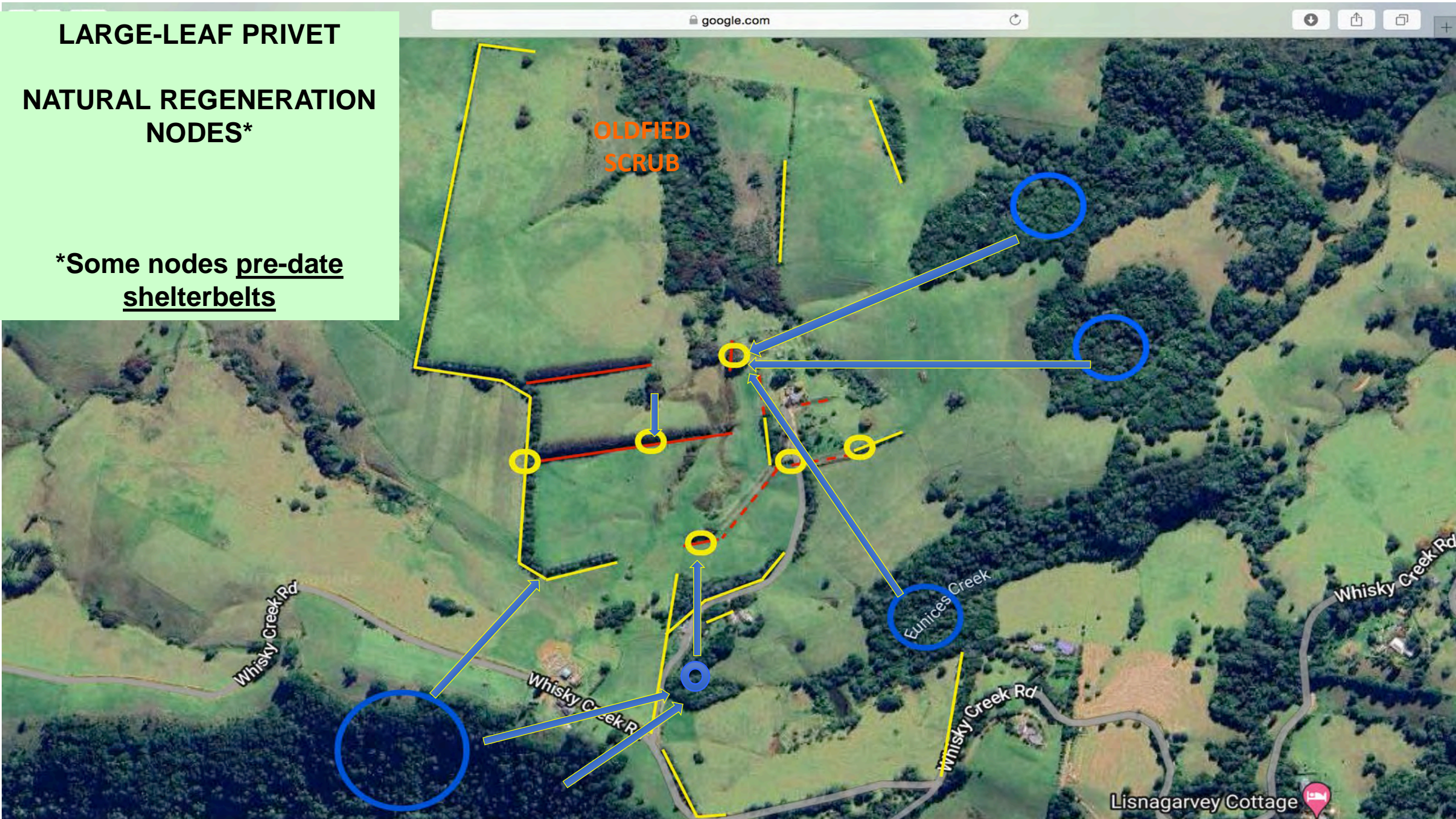


Bill Peel

LARGE-LEAF PRIVET

NATURAL REGENERATION NODES*

*Some nodes pre-date
shelterbelts





70 YEAR-OLD LARGE-LEAF PRIVET COMPARISON

UNGRAZED: 19 OFFSITE SPECIES RECRUITED; 2X THE SPECIES REGENERATING, 1.5X MORE SPP. FROM OFF-SITE

GRAZED: HALF AS MANY SPECIES REGENERATING, A THIRD LESS SPECIES FROM OFF-SITE

WHY?

ONLY
SMALL-LEAVED
PRIVET:
6 MONTHS OF FRUIT
BUT
NO NECTAR



ADD
BRUSH MISTLETOE:
EXTRA
6 MONTHS OF
NECTAR
AND
5 MONTHS OF FRUIT
!

PRIVET ALONE: CONNECTS

if a rainforest seed source is within 1km:

UNGRAZED PRIVET TURNS INTO RAINFOREST

THE ADVENTIVE RESULT IN AN ISOLATED REMNANT: SLP PRIVET + **MISTLETOE**

REMNANT
STATS:

ONLY 0.26 ha
+
NEAREST BUSH
500m+



WHAT CHANGED:

1. FENCED
2. PRIVET
CONTROL
3. RETAIN PRIVET
WITH MISTLETOE
4. KEPT DEADLY
NIGHTSHADE +
INKWEED

28 PLANTS RECRUITED FROM OFFSITE

+

33 NEW BIRD SPECIES (INCLUDING MANY FRUGIVORES)

THE ROLE OF GRAZING REFUGIA



**LUCK IN
HAVING:**

- CLIFFS
- WATERFALLS
- ROCK SCREES

OR:
**BUILD
A
FENCE!**

IT IS NEVER TOO LATE TO CREATE A GRAZING REFUGE

THE KEY INGREDIENTS FOR NATIVE SPECIES RECRUITMENT:

- CEASE GRAZING
- A MATURE OVERSTOREY with as little 2 species (eucalypt for nectar, wattle for fruit)
- PROXIMITY TO A REMNANT
- 5 YEARS FOR RECRUITMENT

THE NATIVE SPECIES RESULT

- **Total species regeneration: 11 FOLD INCREASE;**
- **Seedling establishment: 14 FOLD INCREASE; and**
- **Species regeneration: 16 FOLD INCREASE.**

NATIVE SPP. WINDBREAKS VS LARGE-LEAF PRIVET RELATIVE MERITS FOR RECRUITMENT



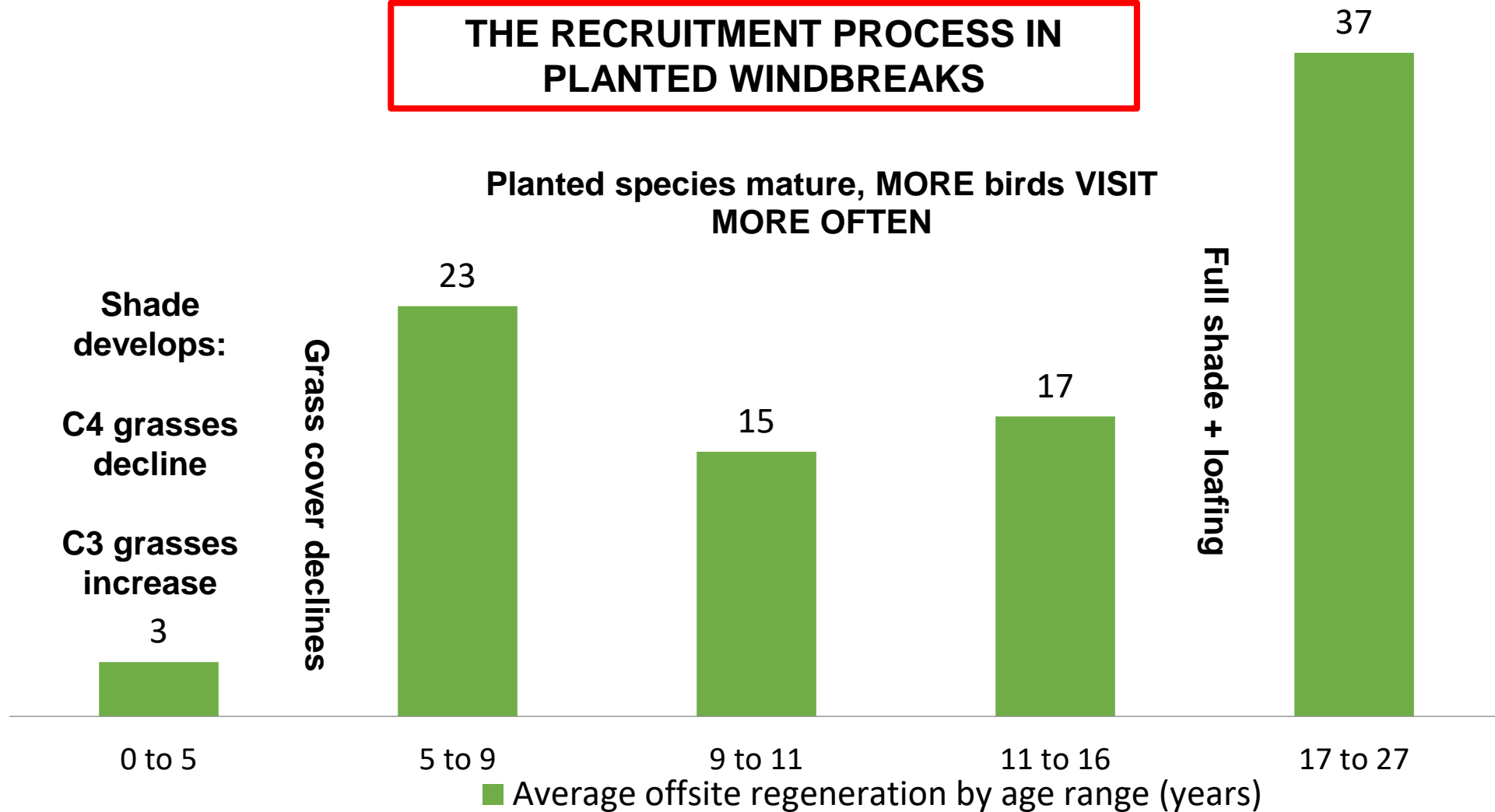
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FOR NATIVE SPP. PLANTINGS:

- 2x the recruitment
- But equal species colonization from offsite

THE RECRUITMENT PROCESS IN PLANTED WINDBREAKS



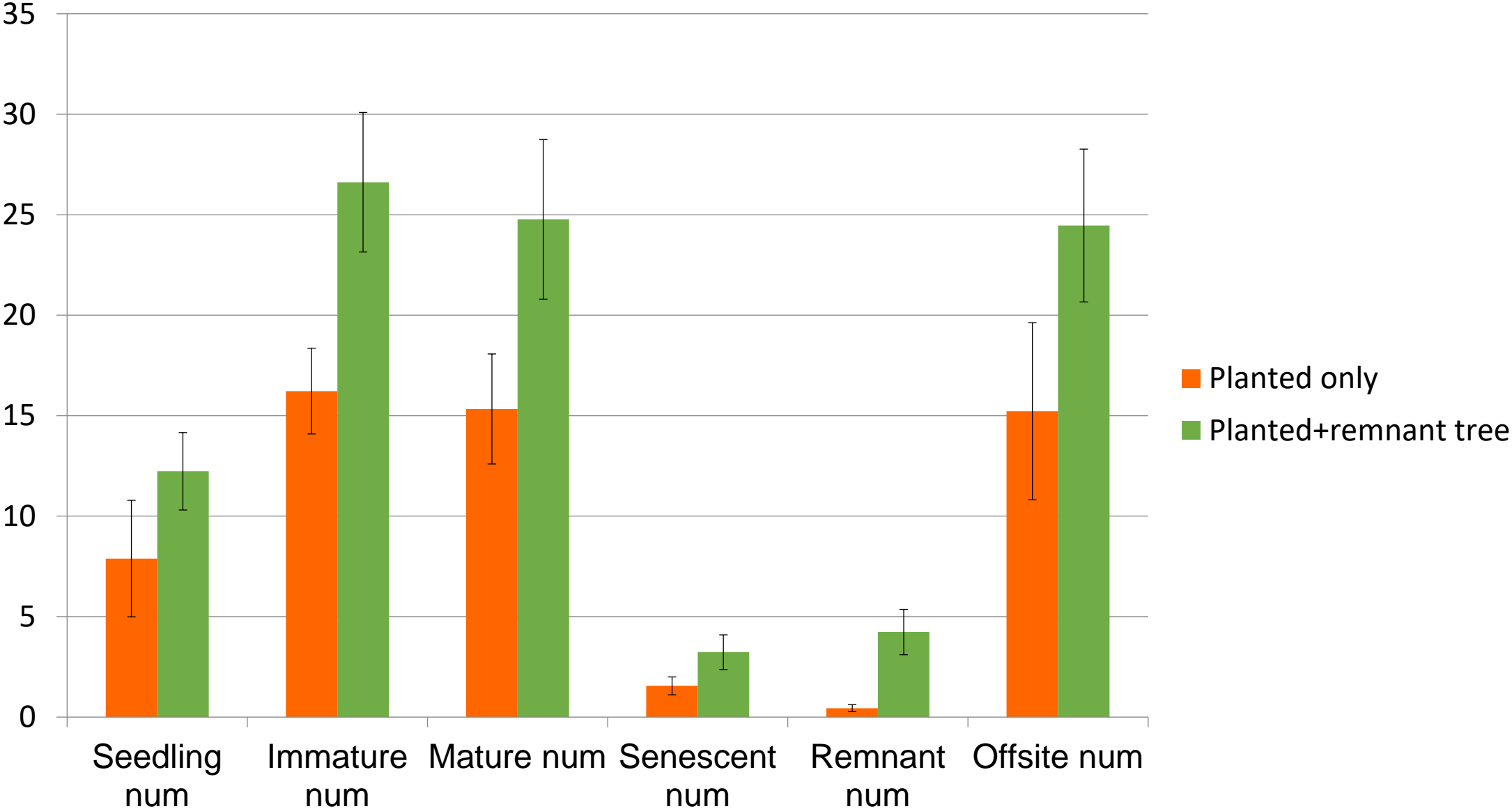
27 YEAR-OLD SCLEROPHYLL WINDBREAK: 42 RAINFOREST SPECIES RECRUITED FROM OFF-FARM (45 IN TOTAL)



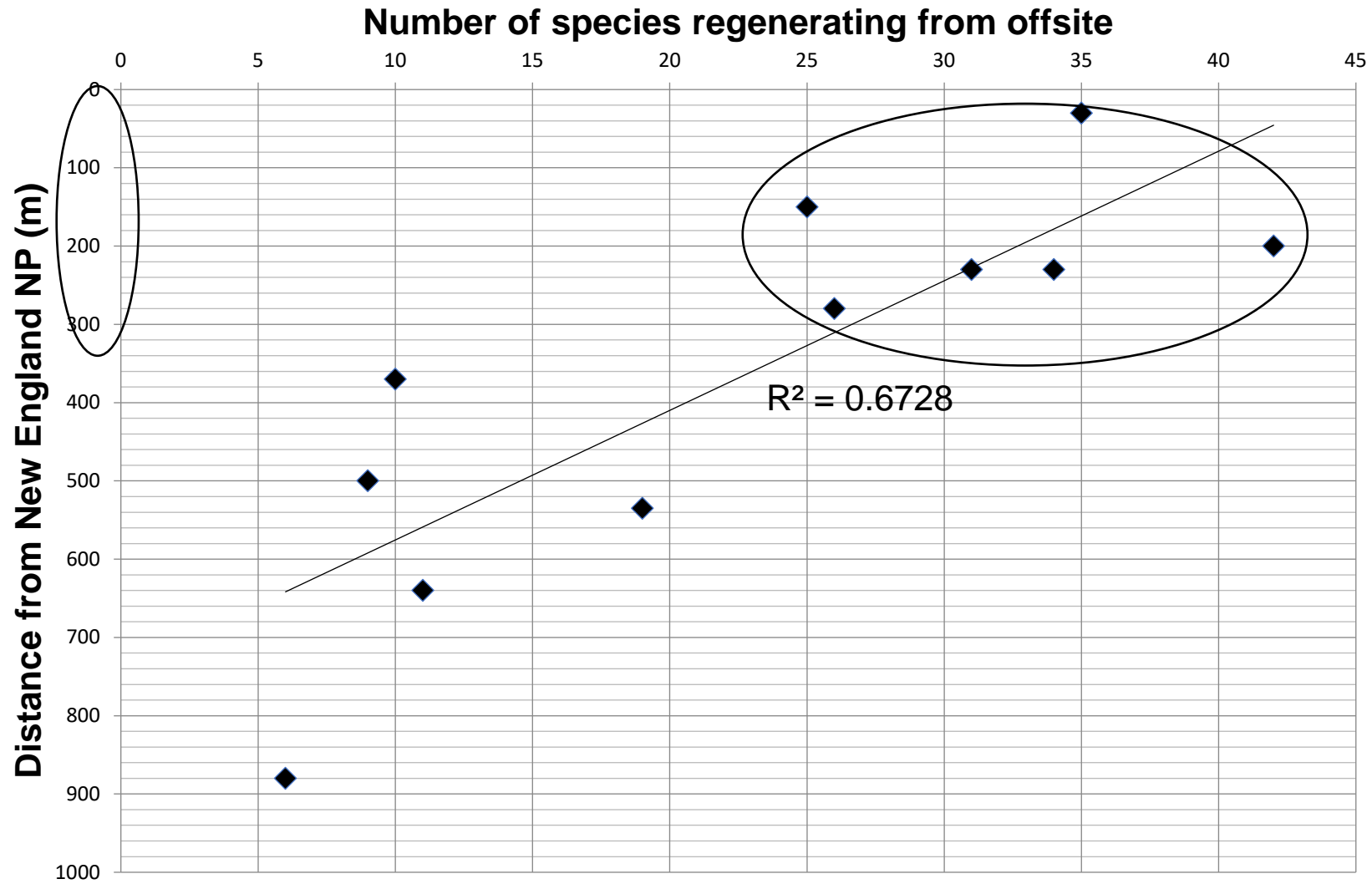
JUST SOME OF THE SPECIES:

1. ORIGINAL PLANTING: Mountain Banksia *Banksia integrifolia* ssp. *monticola*
2. OFFSITE RECRUITMENT: Illawarra Flame Tree *Brachychiton acerifolius*
3. OFFSITE RECRUITMENT: Brittlewood *laoxylon australe*

REMNANT TREES TURBO-CHARGE OFFSITE RECRUITMENT



THE ROLE OF SEED SOURCE PROXIMITY AND SIZE



NEW ENGLAND NATIONAL PARK: 0.67 vs. smaller on farm remnants: 0.48

SUMMARY:

HOW TO MAXIMISE RAINFOREST PLANT RECRUITMENT IN SCLEROPHYLL SPECIES WINDBREAKS

