

# How do riparian margins provide multiple ecosystem services in farming landscapes?

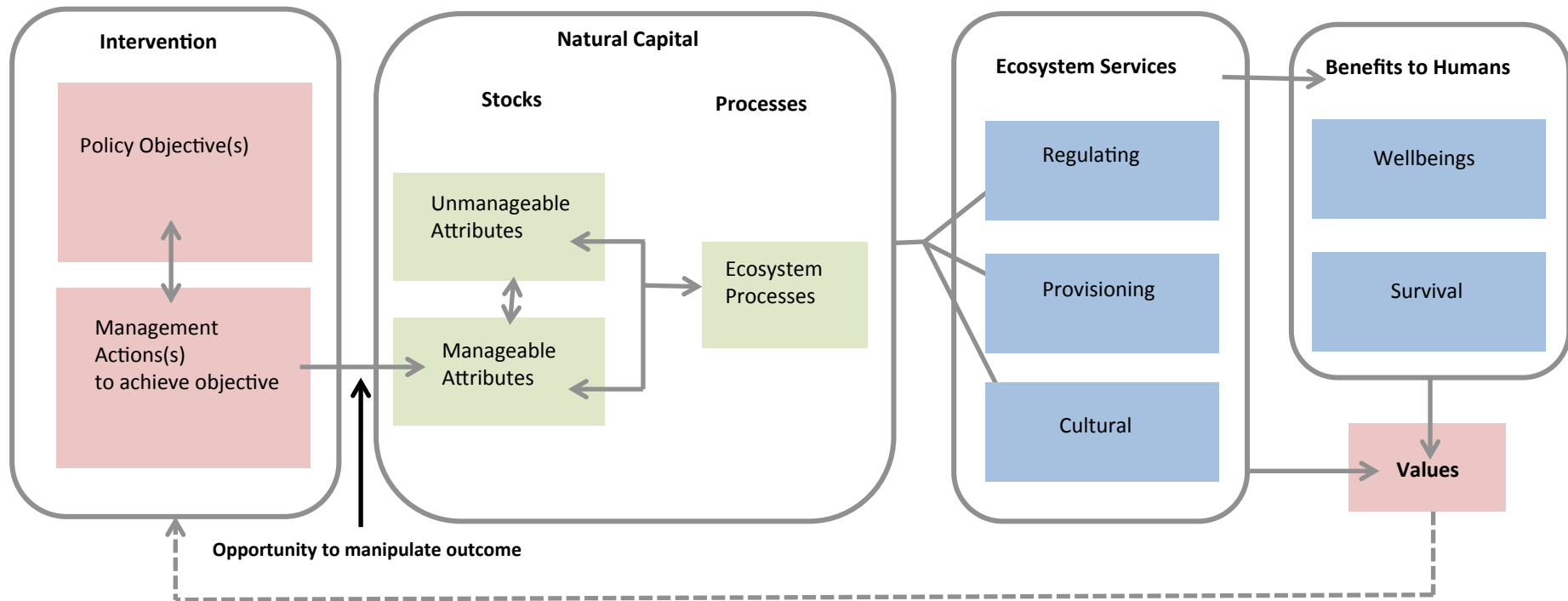
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# The underpinning concept



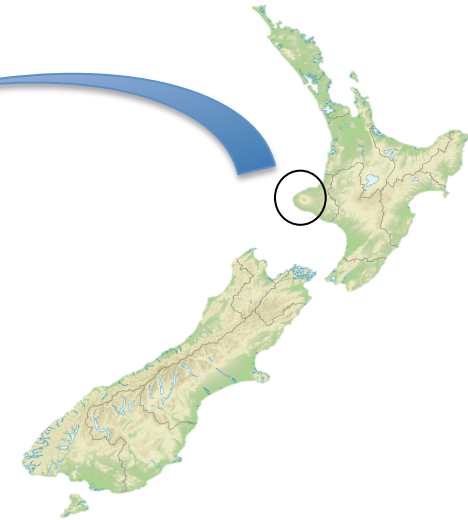
# Riparian margin management in dairy landscapes

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# Case study area: Taranaki ring plain

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- 723,610 ha
- ~ 12% of New Zealand's total milk solids
- Indigenous vegetation cover <10%





# Workshops with farmers

**A**  
n = 18



**B**  
n = 5



*Personal characteristics (percentage):*

≥ 46 yr

83%

80%

♀♂

78% ♂  
22% ♀

100% ♂

owner

89%

80%

# Workshops with farmers

**A**  
n = 18



**B**  
n = 5



*Farm characteristics (mean values):*



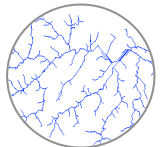
122 ha

133 ha



3.1/ha

3/ha

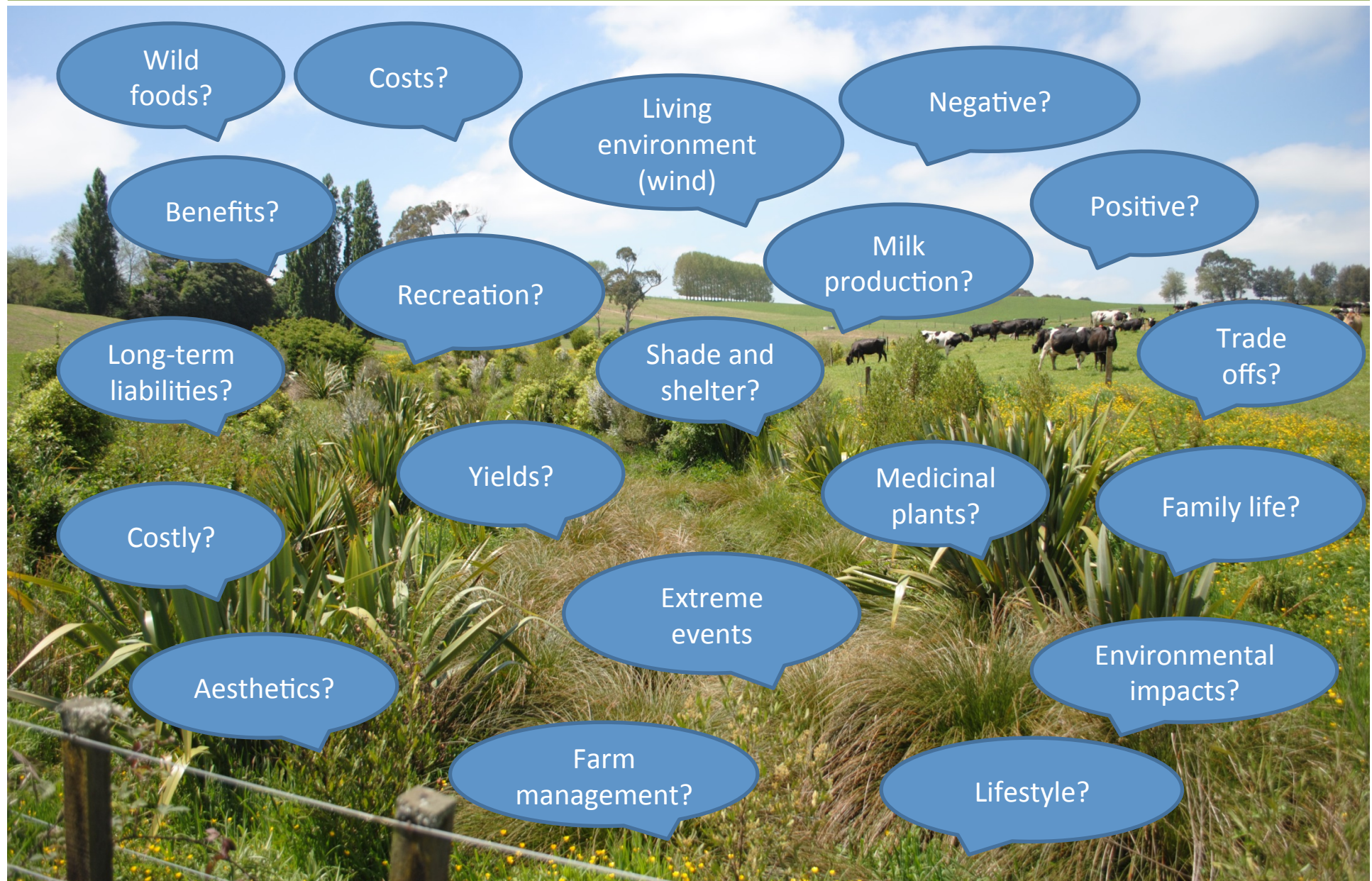


6 km

8.1 km



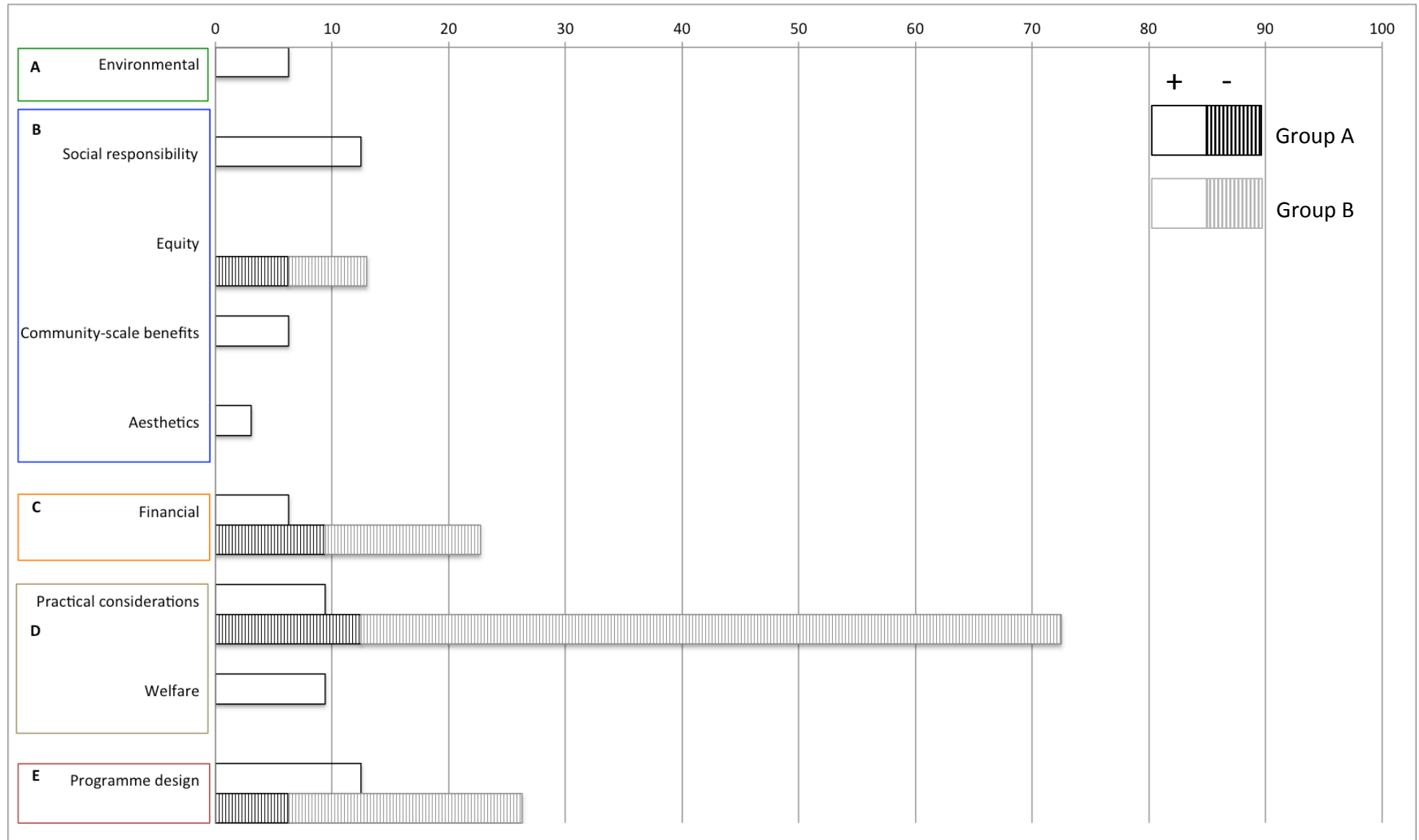
# What are your experiences and perceptions of riparian margins?





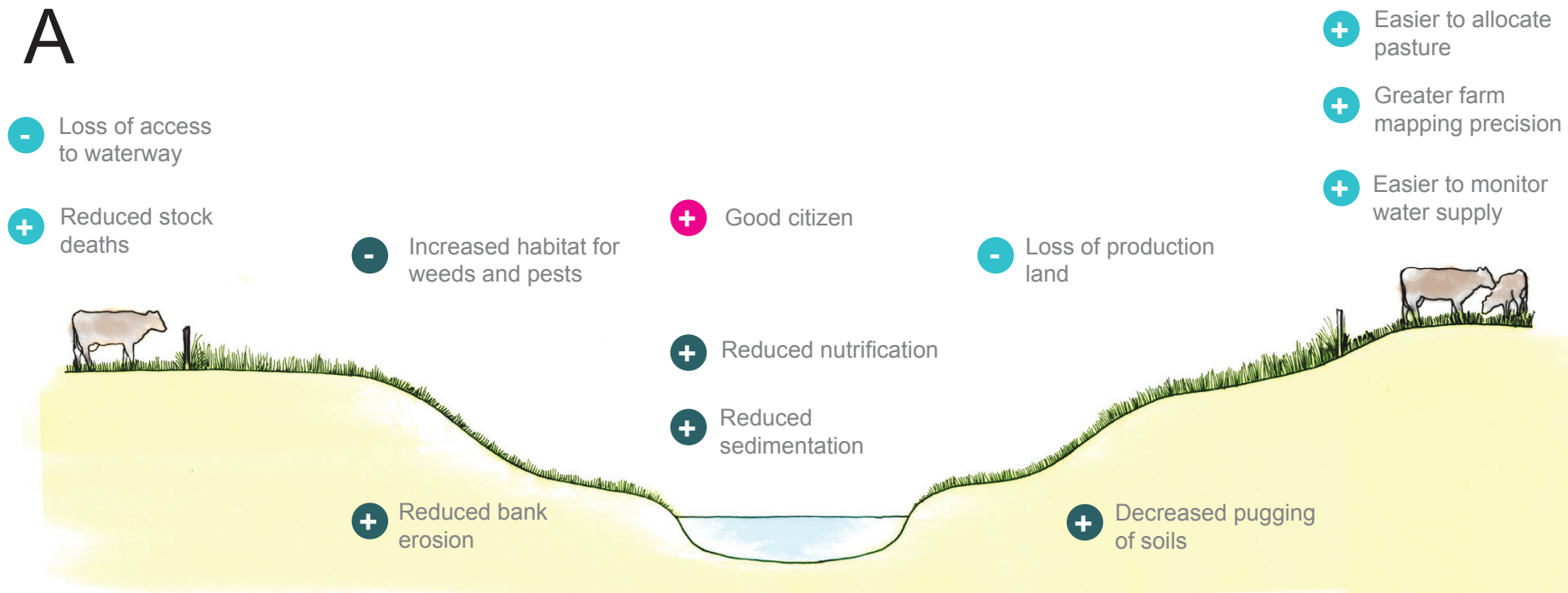


# Farmer perceptions of pros and cons by category



# Farmer perceived pros and cons from riparian margins

A



## KEY

Type of impact:

- + Positive
- Negative

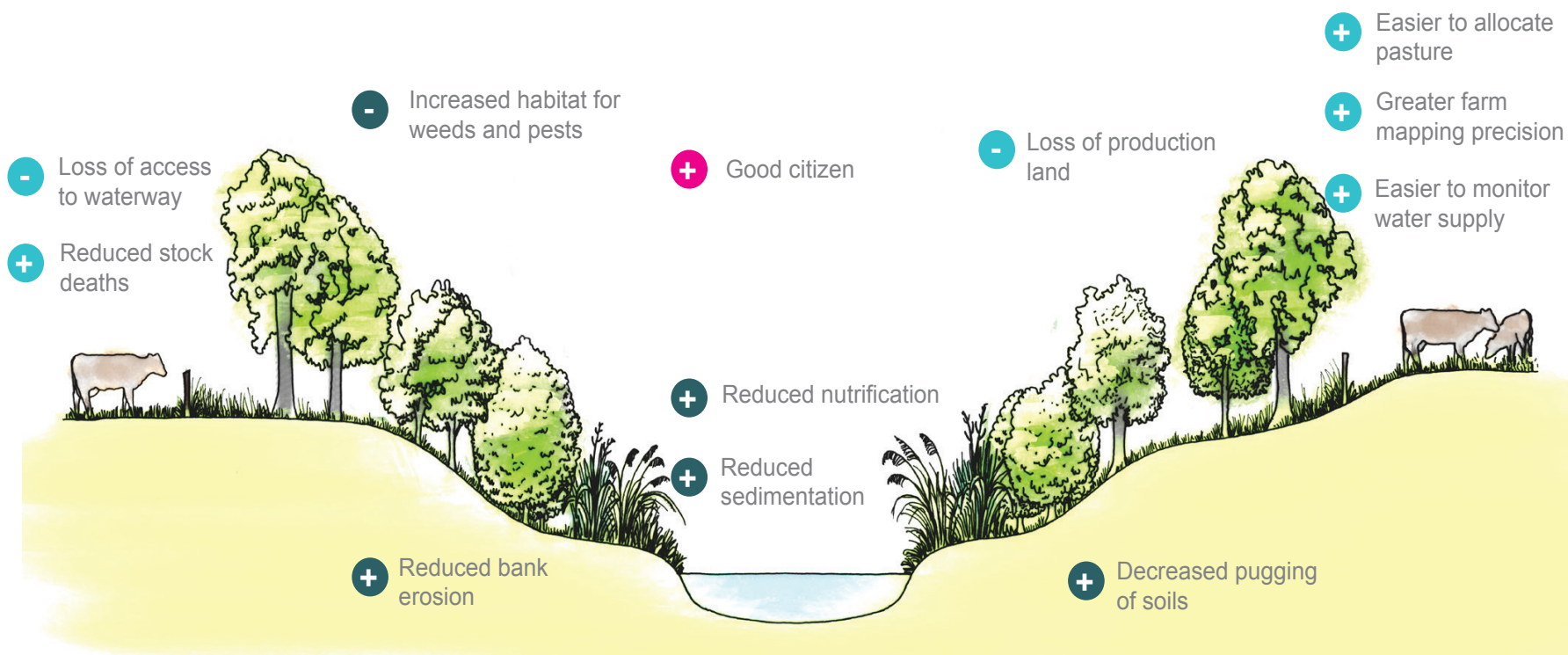
Values:

- Production
- Environmental
- Social



# Farmer perceived pros and cons from riparian margins

## B



### KEY

Type of impact:



Positive



Negative

Values:



Production



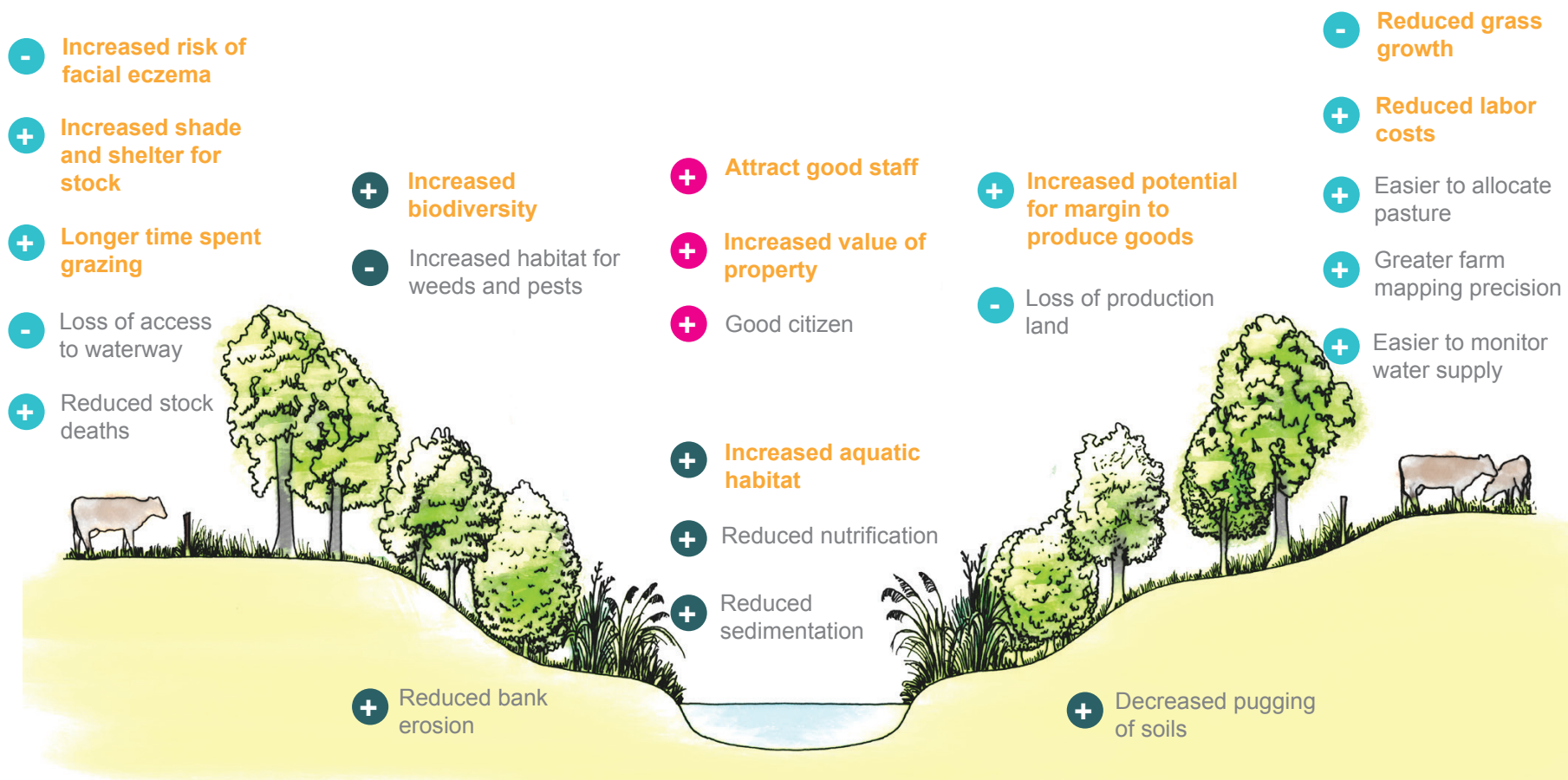
Environmental



Social

# Farmer perceived pros and cons from riparian margins

## B



### KEY

Type of impact:

+ Positive

- Negative

Values:

● Production

● Environmental

● Social

# Do planted riparian margins generate ecosystem services?

**A**



1. Believed in objectives and outcomes
2. Pros and cons (trade-offs and synergies)
3. Benefits beyond water quality
4. Links to ecosystem services and future values

**B**



1. Did not believe in objectives and outcomes
2. Saw only cons
3. Did not link to ecosystem services



# Do planted riparian margins generate ecosystem services?

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1. Environmental, production, and social values
2. Wider range of ecosystem services when integrated into farm systems
3. Not a panacea for all environmental issues
4. Need for comprehensive policy frameworks