Resilience & Women

Fostering holistic social-ecological resilience to climate change

Kame Westerman

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discovery through research

Ecological vulnerability
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discovery through research

BANQUE MONDIALE

REPUBLIQUE DE MADAGASCAR
Tanindrazana – Fahafahana - Fandrosoana

FONDS POUR L'ENVIRONNEMENT MONDIAL

MINISTERE DE L'ENVIRONNEMENT, DES EAUX ET FORÊTS

DIRECTION GENERALE DE L'ENVIRONNEMENT

PROGRAMME D'ACTION NATIONAL D'ADAPTATION AU CHANGEMENT CLIMATIQUE

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Little implementation on the ground
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Ecological

Social

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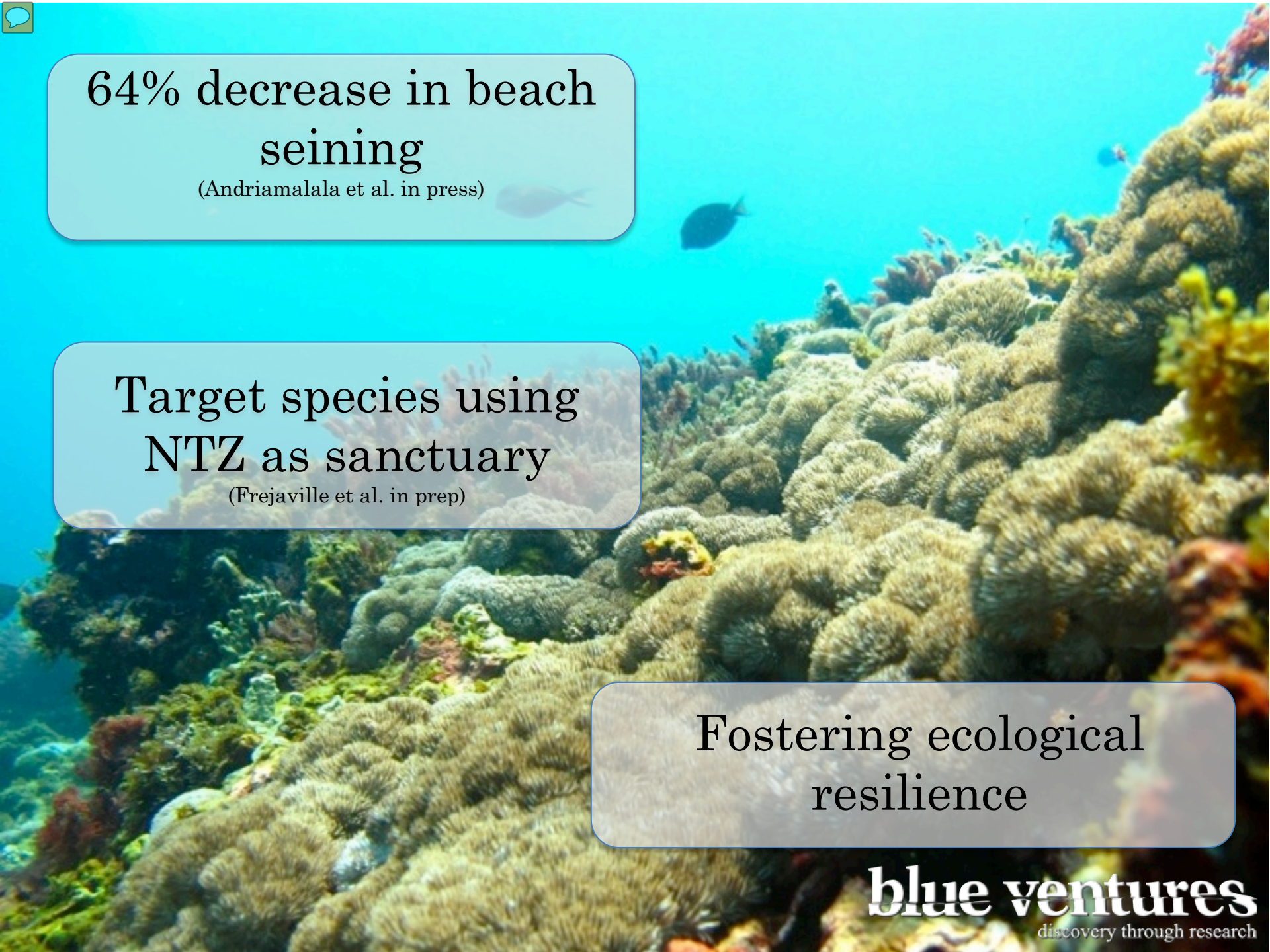
64% decrease in beach seining
(Andriamalala et al. in press)
Target species using NTZ as sanctuary
(Frejaville et al. in prep)
Fostering ecological resilience
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Fostering social resilience

Health

Diversified livelihoods

Education

Resilience and women

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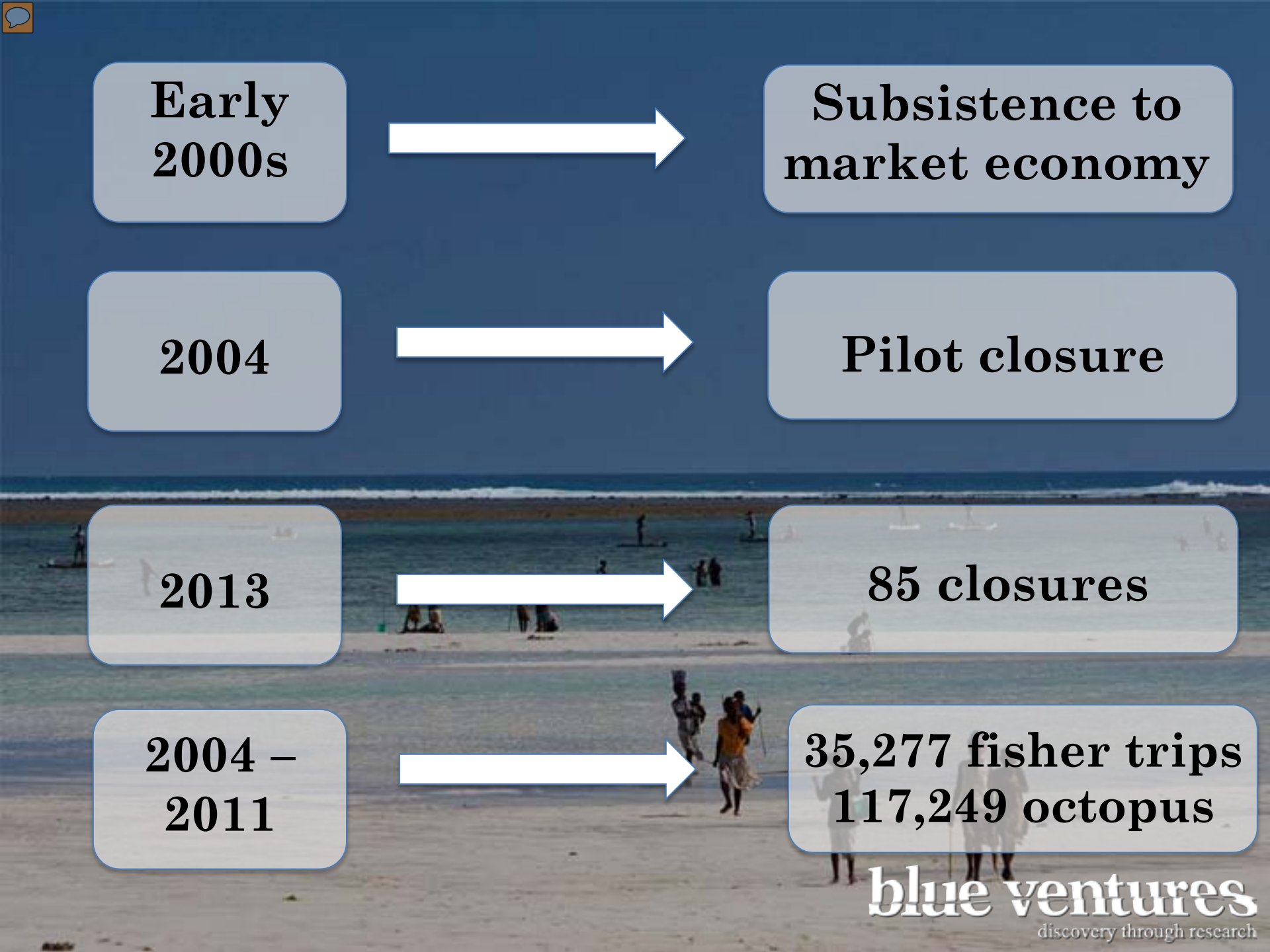
Early 2000s
Subsistence to market economy
2004
Pilot closure
2013
85 closures
2004 – 2011
35,277 fisher trips
117,249 octopus
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Governance
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Time is precious
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Cultural barriers
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129 men
139 women
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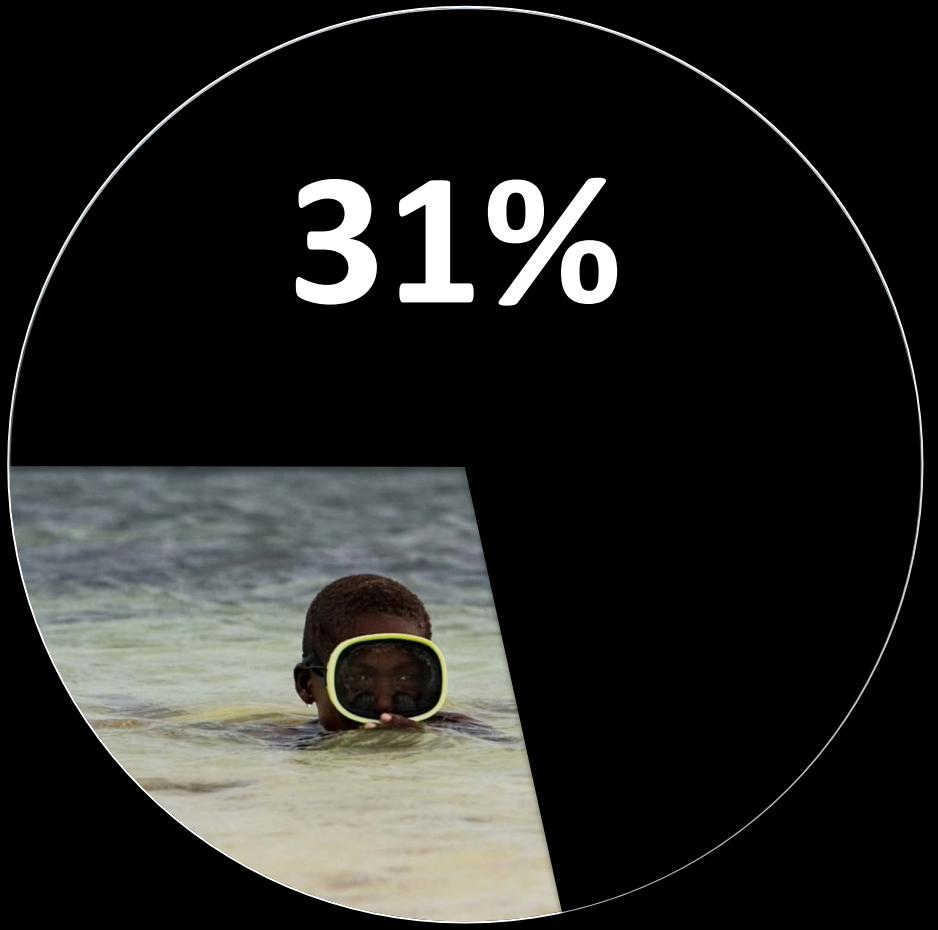
86%

86%


31%

99%

Access to cash
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Data results

WPUE: 3.13 kg/fisher/day (men)
2.58 kg/fisher/day (women)

Average Weight: 925 g (men)
820 g (women)

NPUE: women usually caught more

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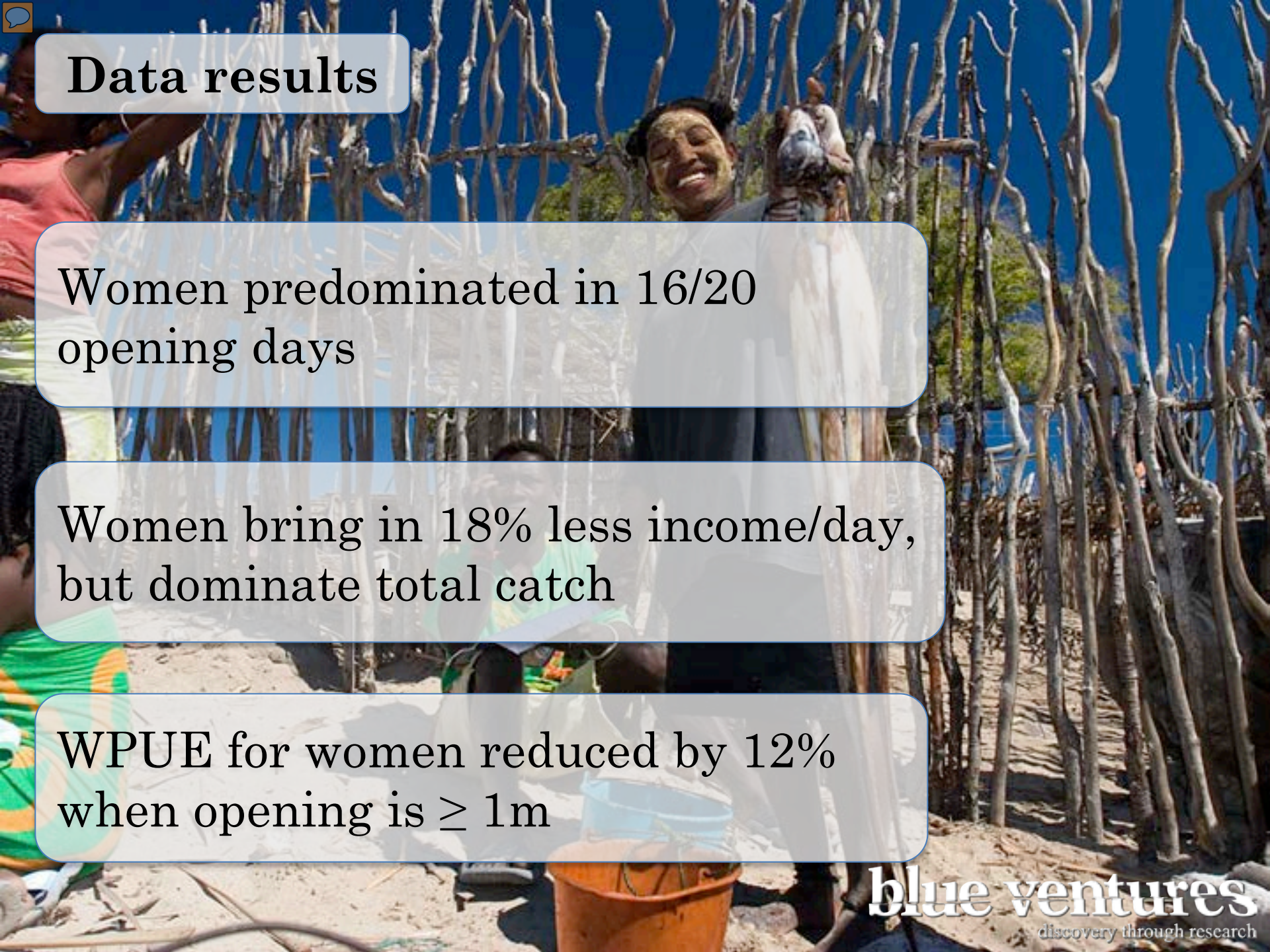
Data results

Women predominated in 16/20 opening days

Women bring in 18% less income/day, but dominate total catch

WPUE for women reduced by 12% when opening is ≥ 1m



Workshops
Day & time not coordinated with women's needs
Men selectively enter the fishery on opening
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Solution
Separate meetings
Day and time that works for women
Hold meetings closer to villages
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Westerman K & Benbow S (in press) The role of women in community-based small-scale fisheries management: the case of the southwest Madagascar octopus fishery. *Western Indian Ocean Journal of Marine Science*.
Misaotra Betsaka!
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