

## ***HOW TO USE THIS PPT:***

*It is advised that this presentation be delivered in full to ECE centre staff at the initial planning meeting. Then please curate your individual presentations from the slides following so it is appropriate for your group and knowledge base of your audience.*

*When working with ECE students it is more effective if small parts of this are presented, then followed with relevant hands-on activities from the rest of the resource kit.*

*There are notes for your info in the 'notes' section.*

*There are some basic WBC 'master pages' which have been created just for you if you have any local content to add.*

*Use Myriad bold italic as the font, or Calibri bold italic if you don't have Myriad.*

*...and of course – remove this slide from the front before presenting :-)*

## National Īnanga Spawning Education Programme



# Īnanga/Whitebait

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Presented by:



The National Īnanga Spawning Education Programme is supported by...



ADAPTIVE SCIENCE & VISUAL COMMUNICATION



# īnanga

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# eggs – life cycle

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eggs

# eggs – spawning

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# eggs

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photo © EOS Ecology / Shelley McMurtrie

# eggs – habitat



# larvae – life cycle

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eggs



larvae

# larvae

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# larvae – habitat

**LARVAE  
HABITAT**

sea

river

**larvae swim  
out to sea**

# larvae – predators



fish jellyfish

mmmm...  
**TASTY!**



# whitebait – life cycle



eggs



larvae



whitebait

# whitebait

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# whitebait – habitat



# *whitebait – predators*

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photo © EOS Ecology

# whitebait – predators

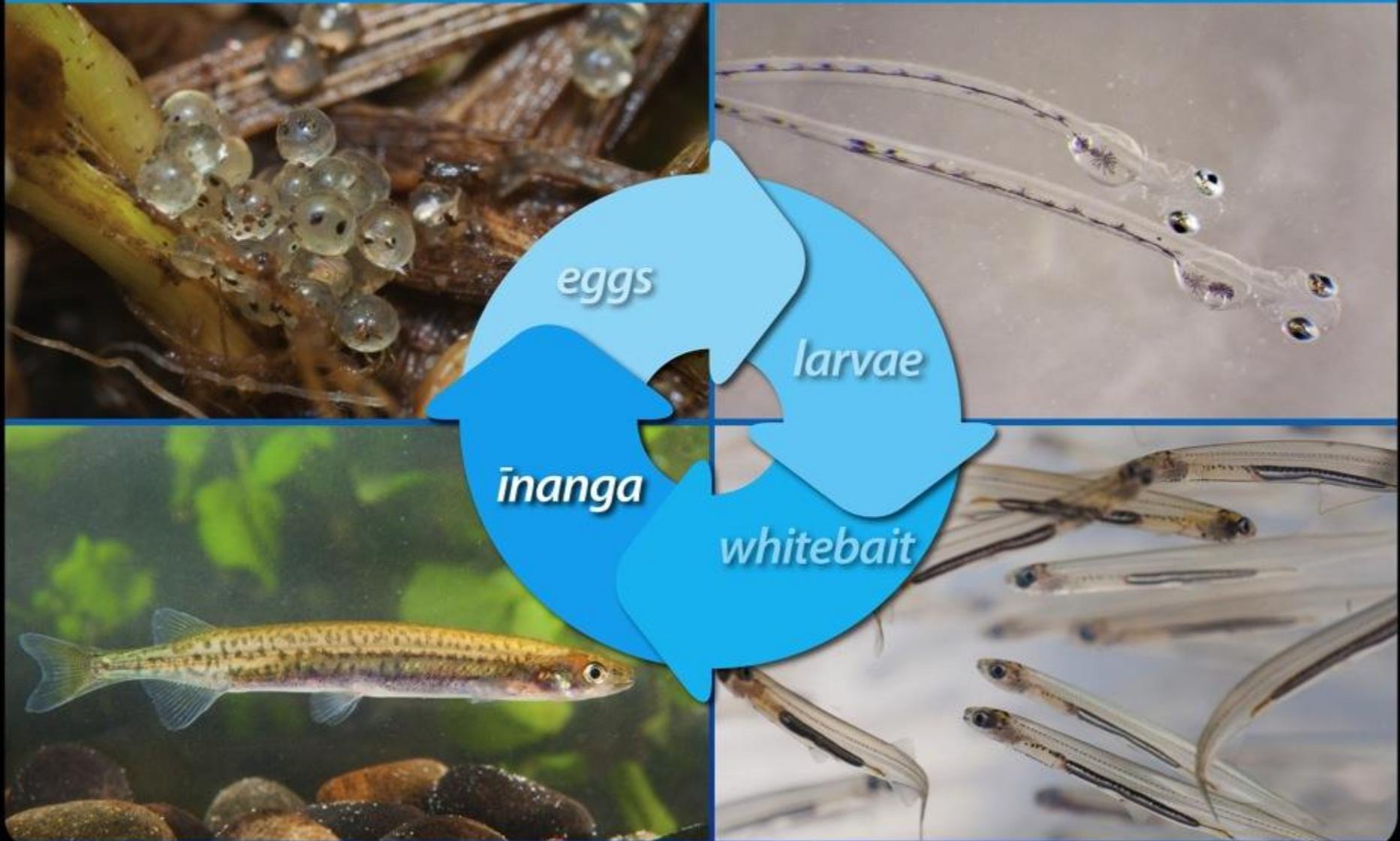
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fish birds



# *īnanga* – life cycle



# īnanga

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# īnanga – habitat

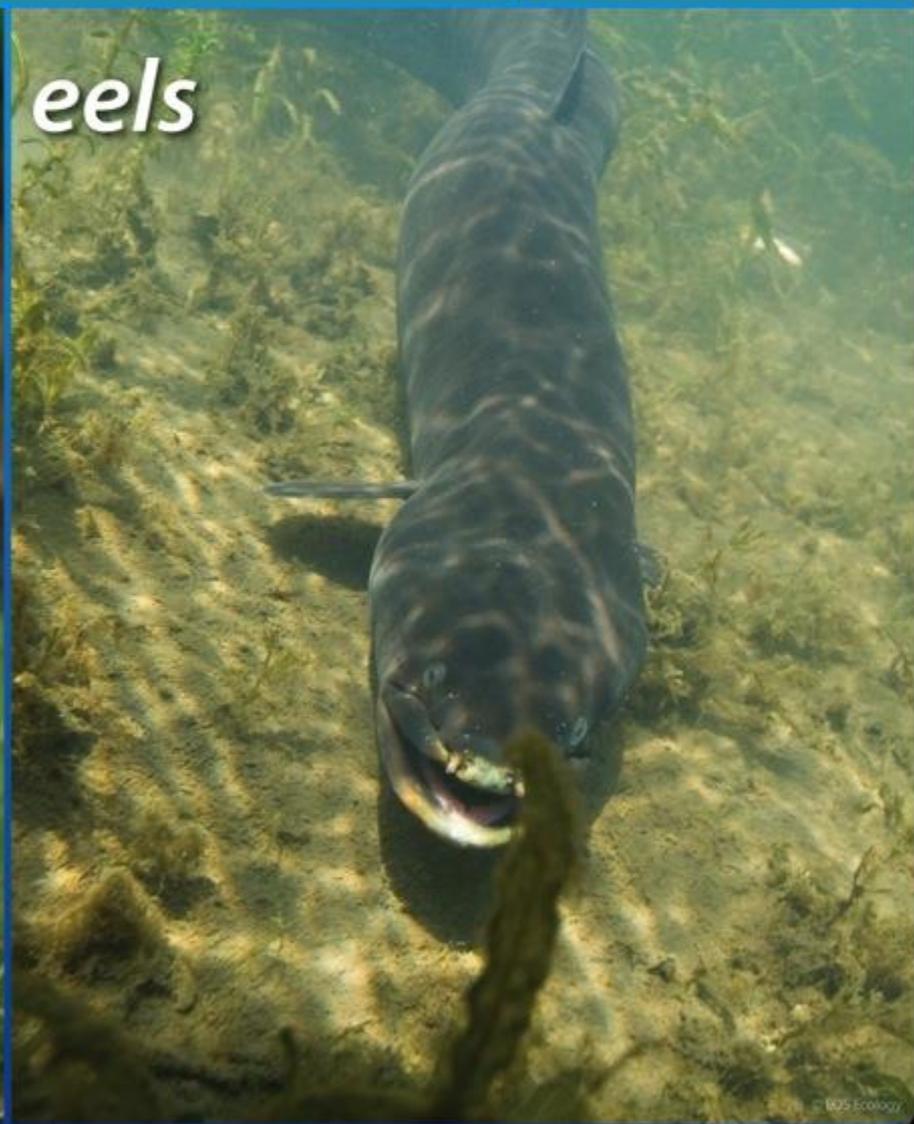


# īnanga – predator

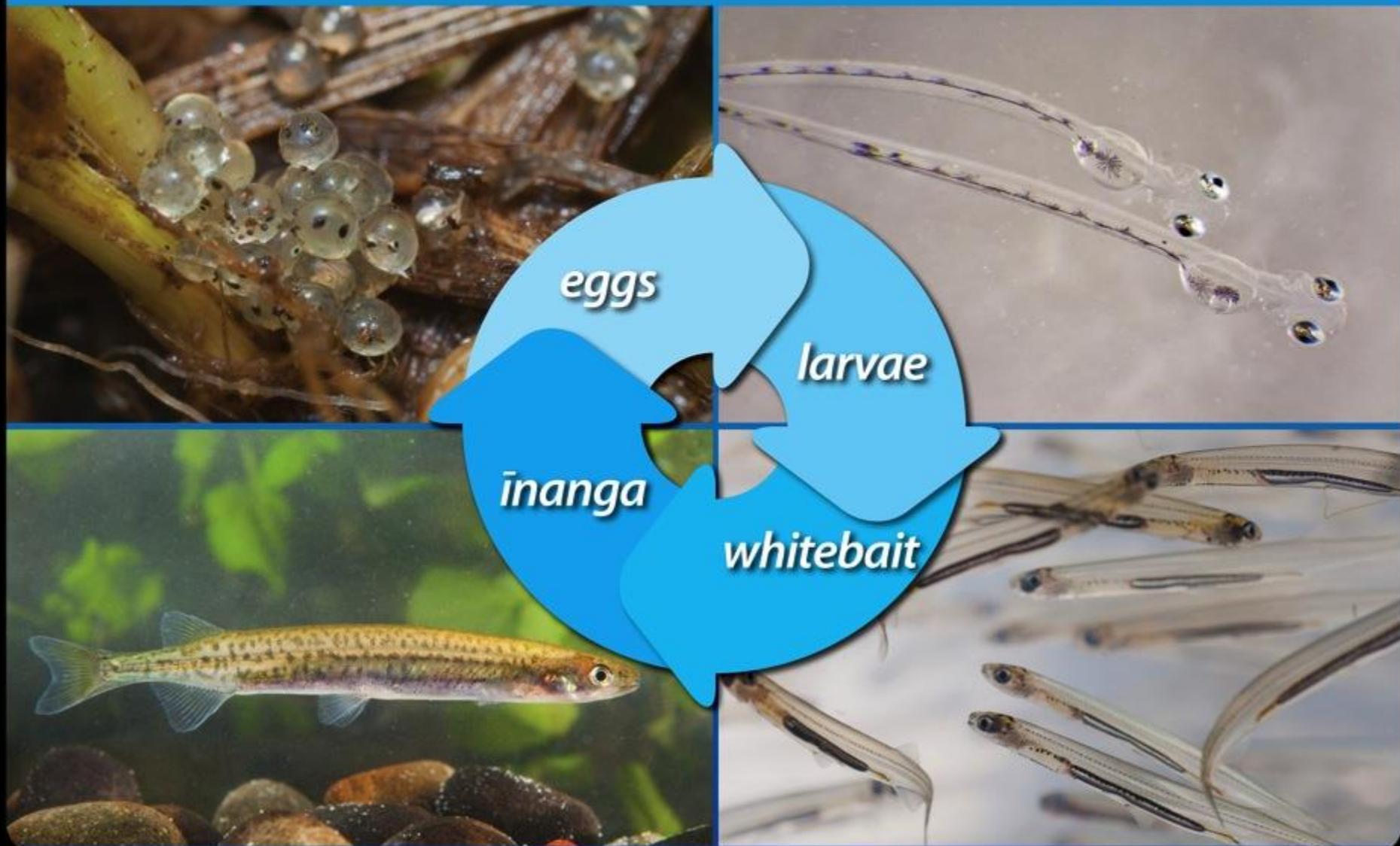
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*birds* *eels*



# life cycle



*īnanga*  
*numbers are*  
**DECLINING!**



???

where's  
everyone  
gone?

# *why do we care?*

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**less inanga eggs = less whitebait = less fritters**



photo © EOS Ecology

# why numbers declining

## 1. more introduced PREDATORS

slugs  
eat eggs



photo © EOS Ecology

mice  
eat eggs



fish  
eat whitebait  
& inanga



photo © EOS Ecology

## 2. damage to HABITATS



# LOVE ZONE changes

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## stock damage to banks



Photo © EOS Ecology

# LOVE ZONE changes

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*man-made changes to  
natural banks*



photo © EOS Ecology

# LOVE ZONE *changes*



*mowing grass on banks  
during spawning season*



# LOVE ZONE *changes*

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*excessive sediment on banks*



# LOVE ZONE *changes*

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*barriers to inanga entering spawning areas*



# *PARTY ZONE changes*



*barriers to swimming upriver*



*how we can  
**HELP** the inanga!*



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# Īnanga/Whitebait

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# other whitebait species

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unlike īnanga,  
we all **CAN**  
climb barriers!

*shortjaw kokopu*

*koaro*

*banded kokopu*

*giant kokopu*