



## Triploid salmon: how salinity influences their growth and welfare

### Innovation Forum “From Policy to Solutions”

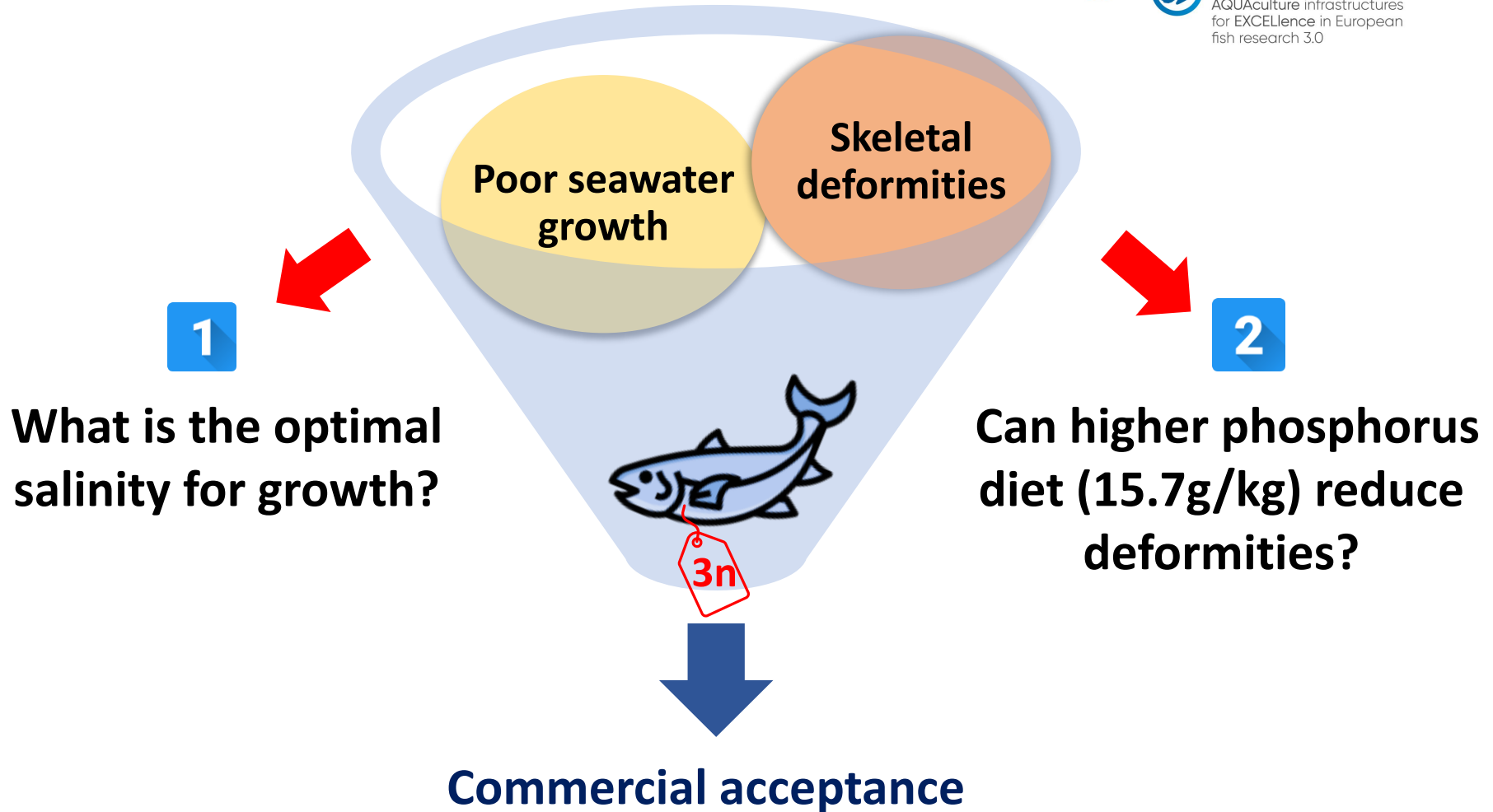
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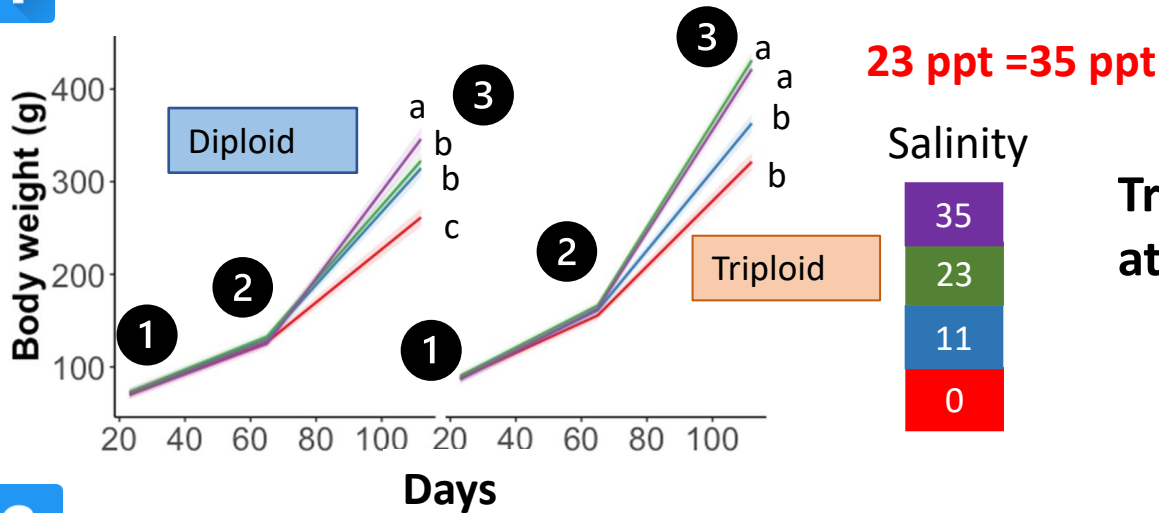


# KNOWLEDGE NEED



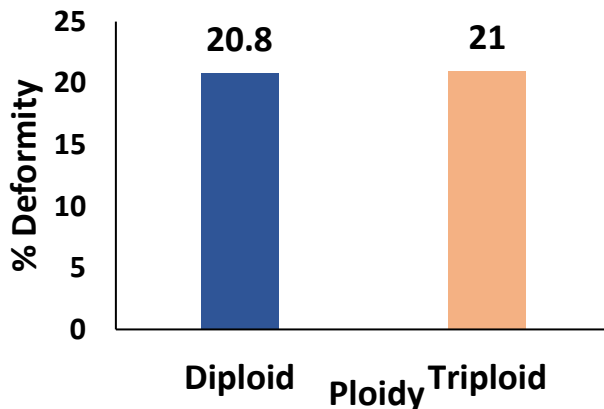
# SOLUTION (RESULT)

## 1 Post-smolt growth $\text{Ploidy} \times \text{Salinity} \times \text{Day}: \chi^2 = 16.5, df = 6, p < 0.05$



**Triploids grew equally well at 23 ppt and 35 ppt**

## 2 Vertebral deformities

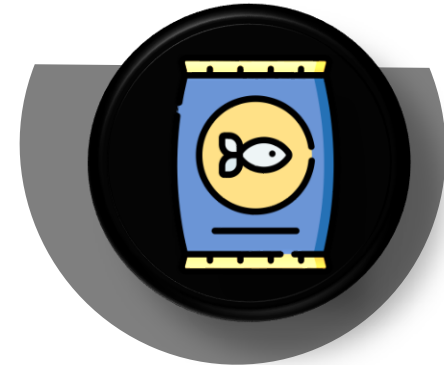
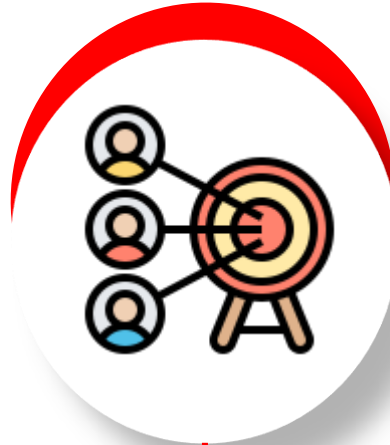


**Higher P diet reduced the deformities down to 21%**

# TARGET MARKET



25% by 2030



Applicable in  
RAS

**1** Atlantic salmon  
RAS producers

**2** Atlantic salmon  
feed producers

# IMPACT



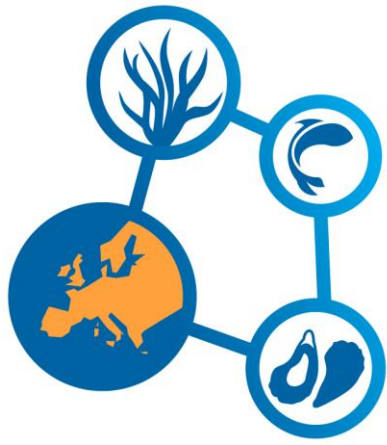
**Triploids show  
faster growth at  
right conditions**



**Improved welfare  
through diets**



**Sterile triploids  
prevents sexual  
maturation**



# AQUA EXCEL 3.0

AQUAculture infrastructures  
for EXCELlence in European  
fish research 3.0



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# Thank you!



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