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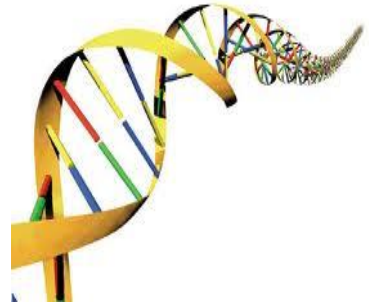

Genetics in support of fisheries and aquaculture management

WELCOME AND INTRODUCTIONS

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CONTEXT OF TRAINING COURSE

- CONSERVATION
- MANAGEMENT
- SUSTAINABILITY

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Managing natural aquatic resources is complex

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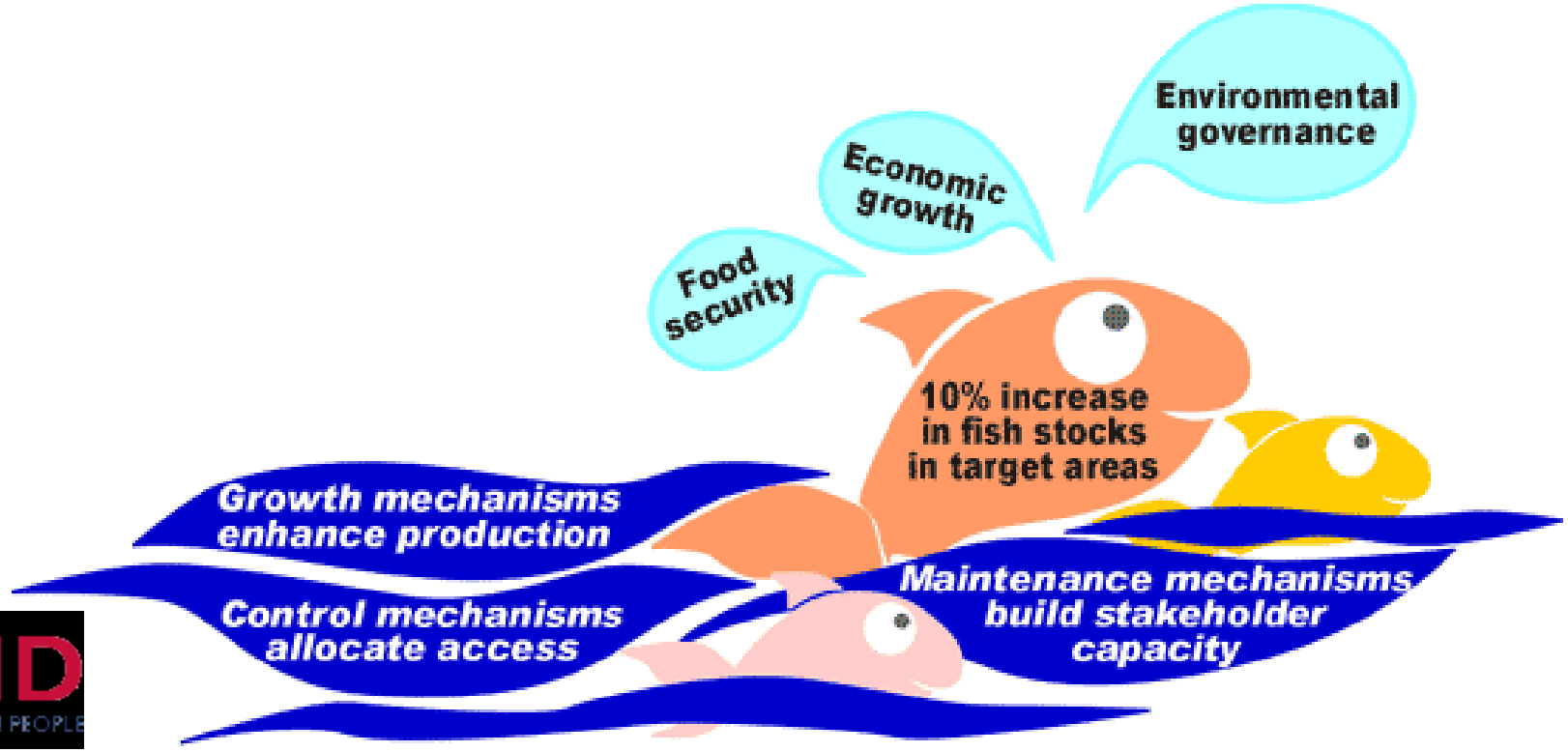
Drivers of policy : numerous and sometimes conflicting

- *Economy and livelihoods*
- *Governance and policy*
- *Conservation of Biodiversity*
- *Ecosystem services*

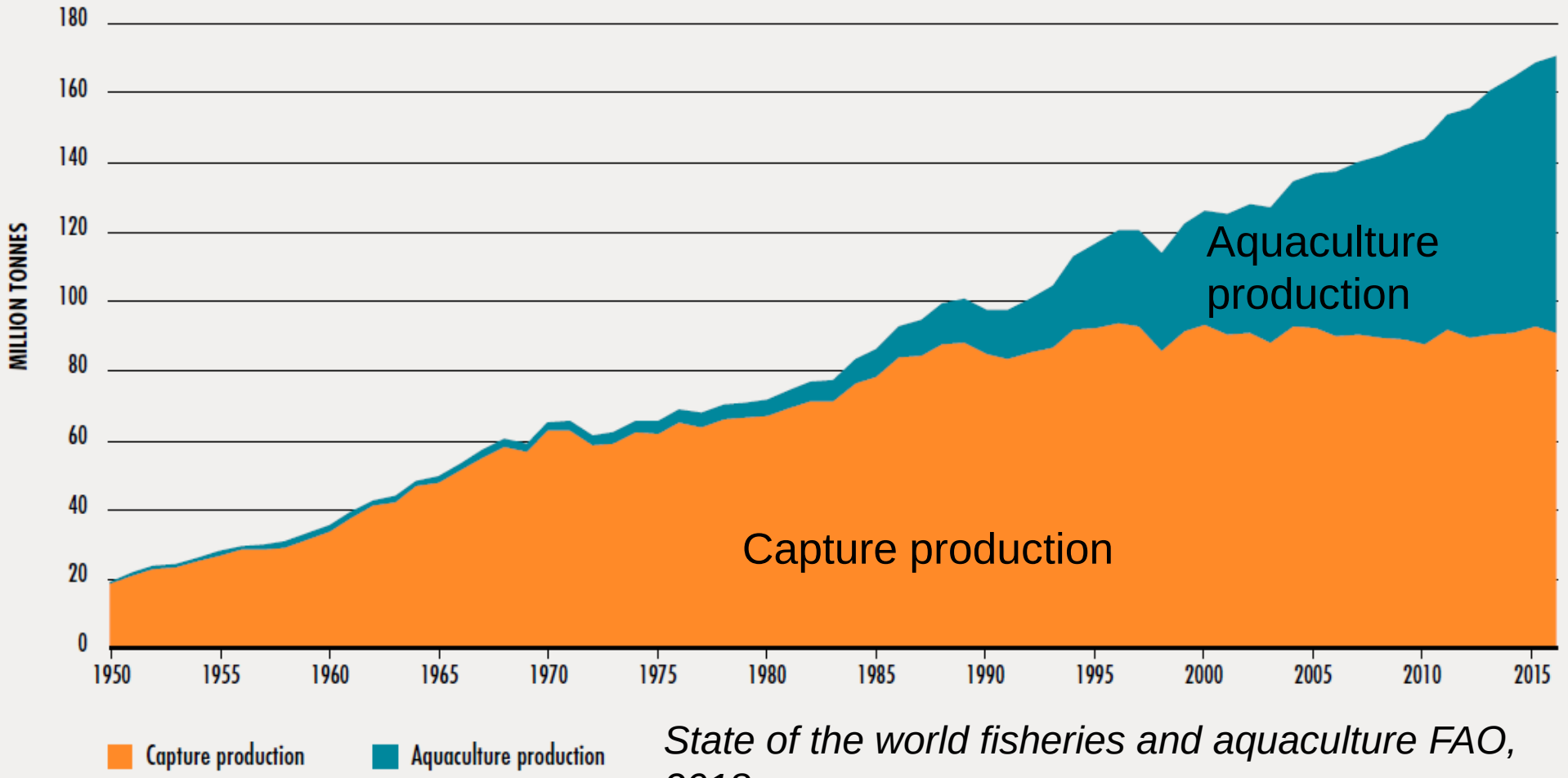
The need to be Responsive and Relevant



USAID
FROM THE AMERICAN PEOPLE

Global aquaculture production is now higher than capture fisheries

FIGURE 1
WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION



State of the world fisheries and aquaculture FAO, 2018

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Why now?

- Role of ICES Expert Group – Application of Genetics in Fisheries and Aquaculture (WGAGFA)
- Technological and conceptual advances – tractable, cost-effective applications
- The need for new thinking and integration across time - scales and biological levels
- Vital role of the **genetic** component of aquatic resources

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Who for?

- Range of expertise and backgrounds
  - PhD students and Postdoc working in genetics/genomics
  - Fisheries scientists/ecologists – varying expertise

- In common:
  - *How and why can genetics help us manage and conserve aquatic natural resources?*

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Course instructors and participants

- INSTRUCTOR INTRODUCTIONS
- PARTICPANT INTRODUCTIONS
  - Name and affiliation
  - Current role/activities
  - Why attend the course?

Host welcome and local plans
Dr Rita Castilho