# A collaborative approach to reducing water pollution from antibiotics production

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# Water, development and stakeholder dialogue: Swedish Water House

- Raising international water issues among Swedish stakeholders
- Dialogue driven work in cluster groups
- A solid foundation for project development





# Responsibilities along the lifecycle

# Why focus on antibiotic resistance?

- The global and the local
  - One of the biggest global public health concerns
  - A local threat to the inhabitants living near manufacturing sites



# **Exposure routes of antibiotics**



Manufacturing of APIs

Inadequate water treatment

Excretion after medical use

Overuse in livestock farming

Improper disposal of unused medicines

#### PROBLEM

- **Pollution:** Industry emissions are a significant factor for promoting AMR
- Efficiency: Suboptimal energy, water and chemicals usage
- Sourcing risks: access, quality

#### **APPROACH**

SIWI and UNDP in dialogue with manufacturers:

- Trust building and facilitation of dialogue
- Increasing knowledge and piloting a new methodology
  - Procurement leverage

BARRIER: Lack of experience, integrated and user friendly tools, and incentives

#### <u>GOAL</u>

- Reduced emissions
- Increased resource
   efficiency
- Reputational advantage
- Awareness of potential solutions

### Joint solutions

# Engagement platform Pilot project – Methodology testing Mapping of Identify and Implement Measure effects – Document and

Self assessment resource flows suggest potential changes changes resource flows evaluate results

# Project approach - REAP effect

