

What are these tiny oceanic creatures that could SAVE our OCEANS?



My name is **MAR** (sea in Spanish) and I've always been **PASSIONATE** about the **SEA**: Studying the **OCEANS** was my **DESTINY!**



→ The **OCEANS** absorb about **1/4** of the **CO₂** partly emitted by our **INDUSTRIAL ACTIVITIES**

- ★ How do they **CAPTURE CO₂**
- ★ How to **MESURE** the **IMPACT** of **CLIMATE CHANGE**

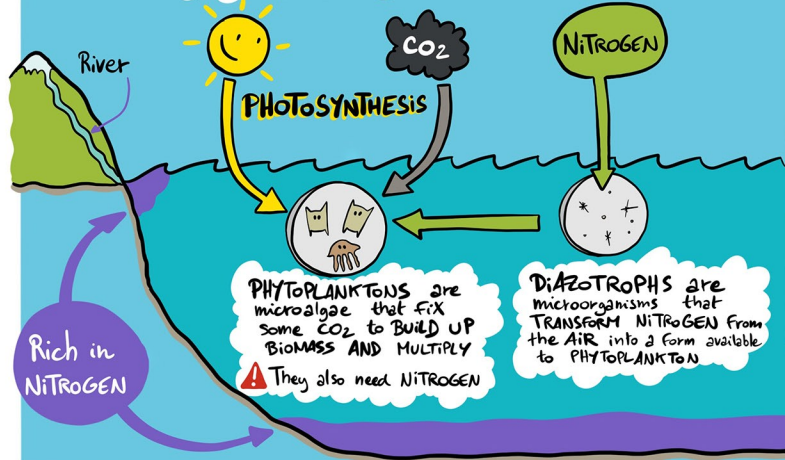
20 000 **DROPS** in **1L** of water
 → **BILLIONS** and **BILLIONS** of **DROPS** in the **OCEAN!**
 And in **EACH** **DROP**, there is **LIFE!**



The **Notion** project **AIMS AT** understanding the **ROLE** AND **FUTUR BEHAVIOURS** of the **DIAZOTROPHS**



- ★ If the **CURRENTS** are **MODIFIED** by **CLIMATE CHANGE**
 - ⇒ interactions between the **STRATA** of water
 - ⇒ **DIAZOTROPHS** are **VITAL** for the **SURVIVAL** of **PHYTOPLANKTONS** AND the entire **FOOD CHAIN**
- ★ If the **DIAZOTROPHS** **PROLIFERATE**
 - ⇒ What **IMPACTS** on the **ECOSYSTEMS**



PHYTOPLANKTONS are microalgae that **FIX** some **CO₂** to **BUILD UP** **BIOMASS** AND **MULTIPLY**
 ⚠ They also need **NITROGEN**

DIAZOTROPHS are microorganisms that **TRANSFORM NITROGEN** from the **AIR** into a form available to **PHYTOPLANKTON**

60% of **GLOBAL OCEAN SURFACE** is **LACKING** in **NITROGEN** as **WATER** forms **STRATA** that prevent **NITROGEN** from **RISEING**

↓
DIAZOTROPHS' MISSION is **CRUCIAL BUT LITTLE KNOWN**

These **COMPLEX** and multidisciplinary **RESEARCHES** are **ESSENTIAL** to **UNDERSTAND** our **OCEANS** and