

**AST-13**



***Past – Present - Future***

2000 – 2007 - 2012 - 2020

### **Mid term assessment**

2000 - Deployments just started

2007 - 3000 floats operating (but core mission not complete)

2012 - Now – profiles growing, 1 every 4 minutes

2020 - A good year to have a vision.

What is Argo doing well?

What are the challenges?



## What is Argo doing well?

- Consistency of core mission
- Continuing to deploy floats
- Overcoming technical challenges
- Adhering to principles of openness
- Engaging new countries

March 2005    18 (5 less than 5 floats)

March 2012    31 (14 less than 5 floats)

- Very effective and responsive distributed data system

### Delivery and quality control of data

90% real time in 24 hrs

85% of eligible profiles processed (50% in 2008)

- Data are having large impact on science  
1000 science papers (2-3 year lag)



# Mid-term assessment Challenges

AST-13

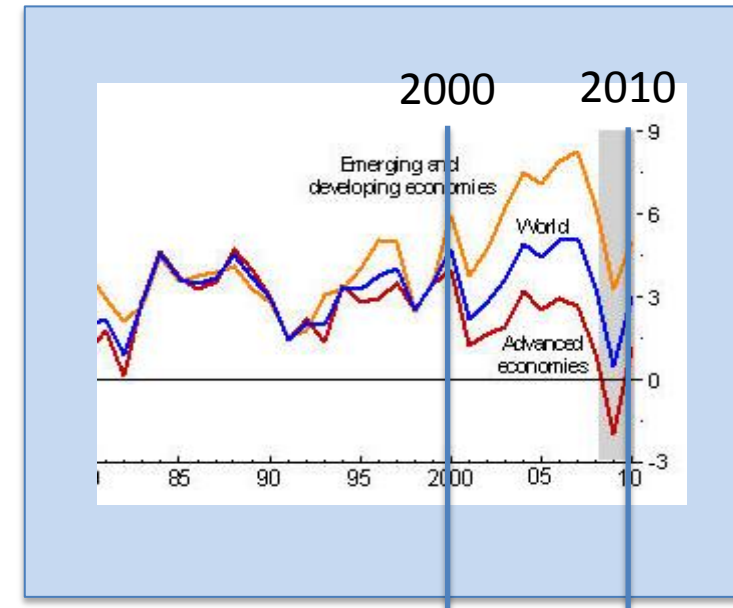
## Resource issues

Argo developed (1999-2007)  
in stable times.

Life is harder now and the  
future even less certain.

## What we have to counter

- Increasing competition from “novel” observing systems.
- Perception that Argo is “done”.

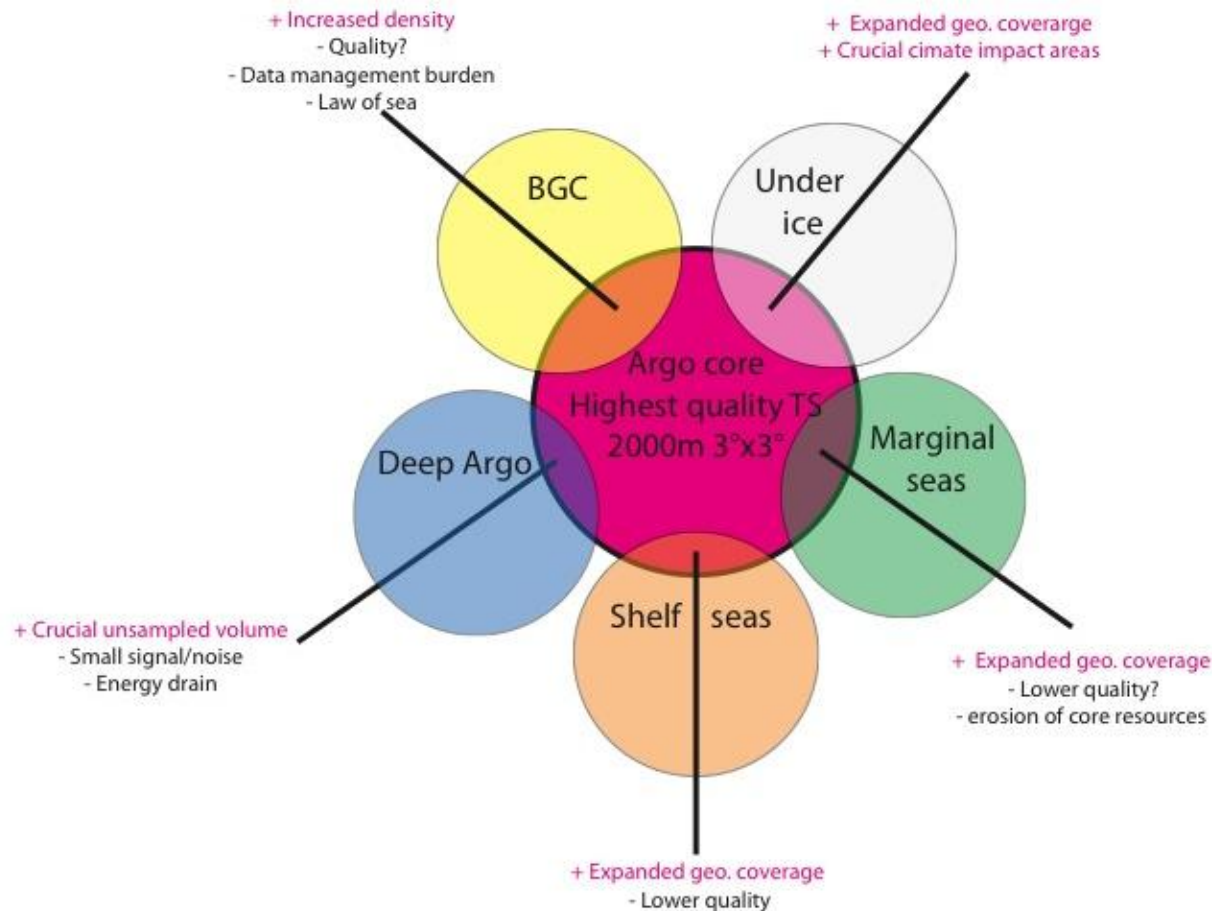


Global GDP growth (World Bank)



## Challenges

“Imitation is the sincerest form of flattery”



- Should define AST and ADMT limits of responsibility.
- Resource issues of extra sensors
- Extra burden on ADMT
- Law of sea issues

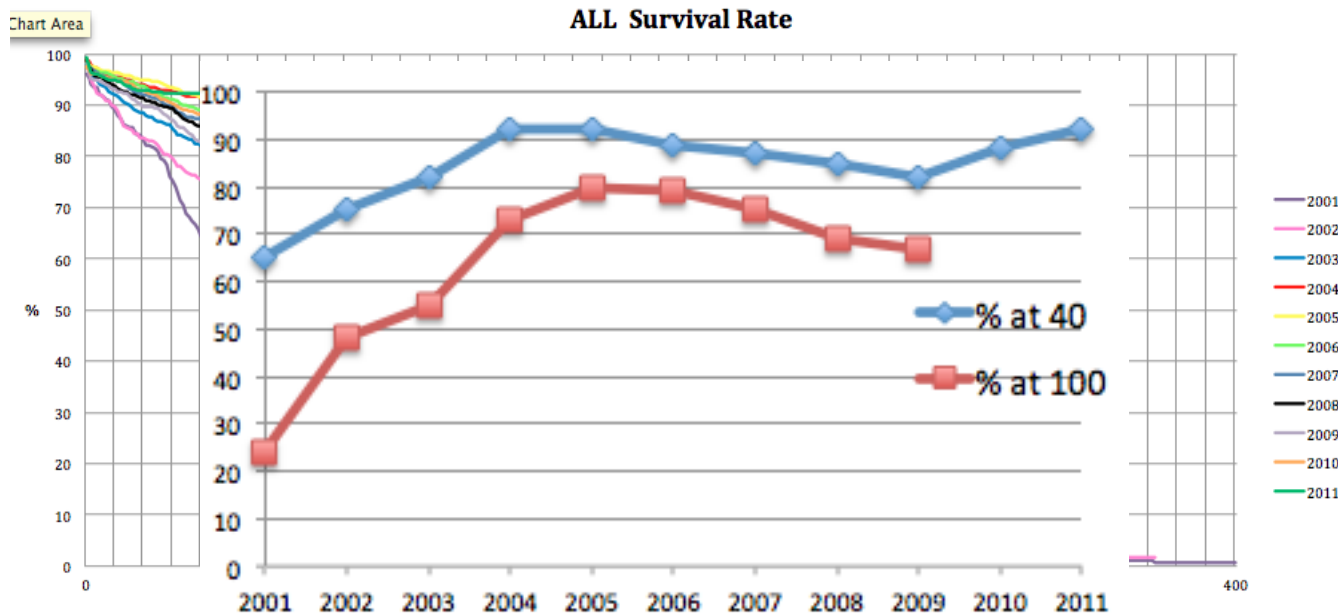


# Mid-term assessment

## Challenges

AST-13

- Vulnerability to technology and external issues
  - This is not a new challenge (Druck, surface pressure offset etc. have been overcome)
  - The array will always be vulnerable
  - Communication issues will affect strategy.
  - We remain concerned about dependence on SeaBird sensors
  - Great improvement in float survivability and lifetime. Key is our relationship with manufacturers





## Challenges

What is Argo?

A single international programme or a consortium of national contributions?

How do we promote ourselves?

Who should be our primary outreach target?

(Funders, Government, Public, Education, Scientists)

How much effort should be devoted?

How do you measure success?

What is the appropriate size of Argo's infrastructure?

**People** - How do we ensure that we will have a strong Argo (AST,ADMT) in 2020

