



International Polar Partnership Initiative

(by the Steering Group on a long-term cooperative initiative)

Co-Chairs: D. Hik, J.-G. Winther; Vice-Chair: Ø. Hov; Point of Contact: V. Ryabinin

AMAP APECS EPB-ESF IASC IASSA ICSU IOC SCAR UoA UNEP WMO





IPY



IPYx10?

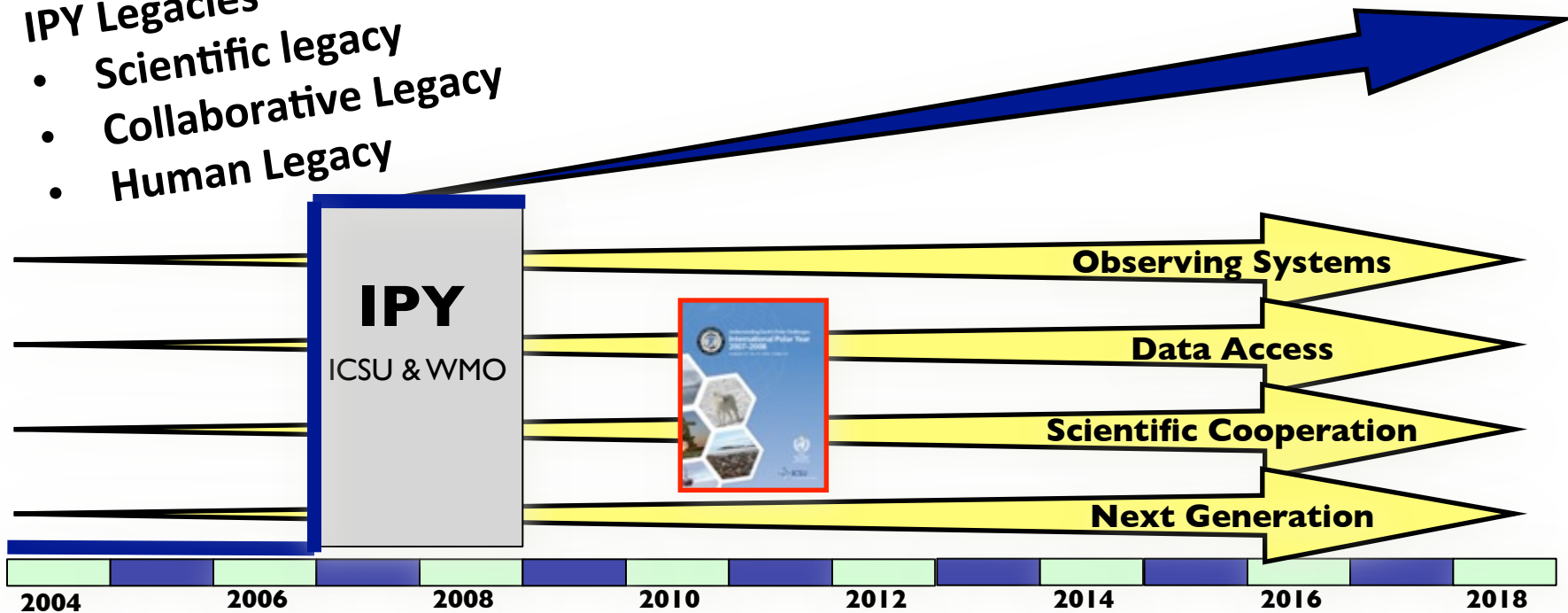
IPD



Saint-Petersburg, April 2011

IPY Legacies

- Scientific legacy
- Collaborative Legacy
- Human Legacy





IPY



IPYx10?

IPD



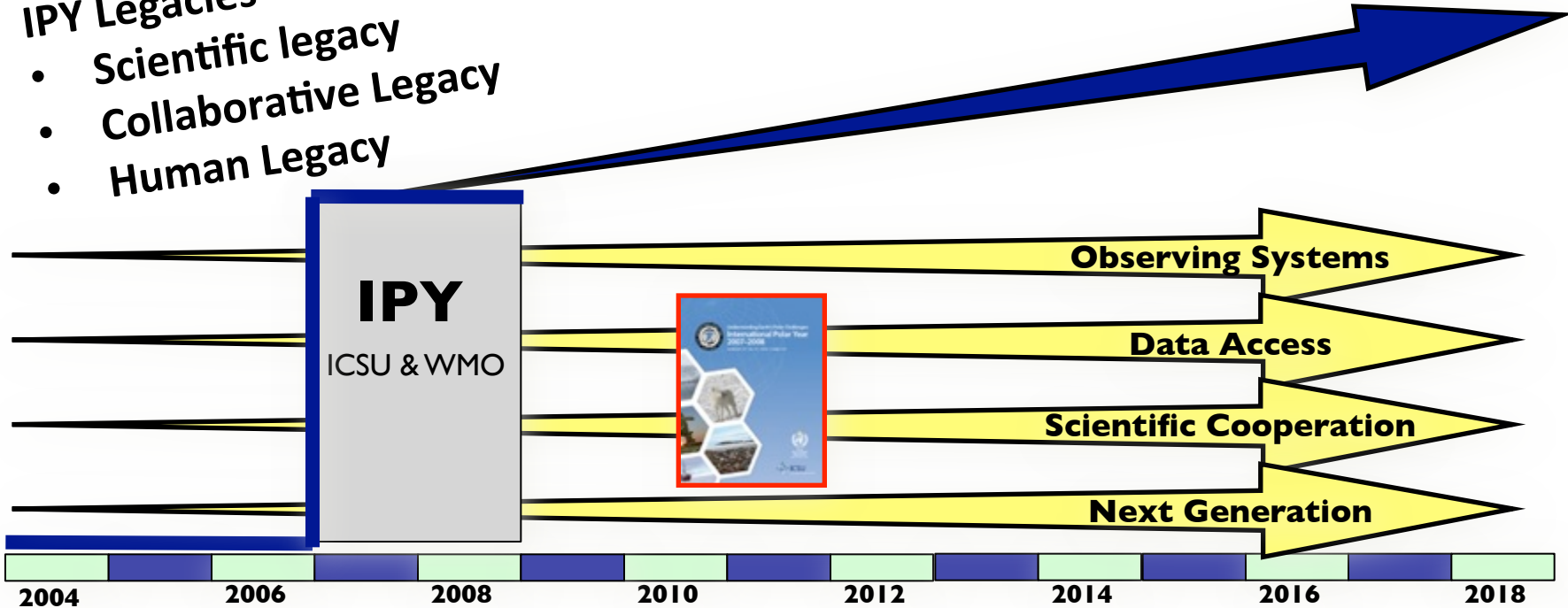
IPI



Will the Initiative bring us what we could not obtain if it did not exist?

IPY Legacies

- Scientific legacy
- Collaborative Legacy
- Human Legacy



IPI Motivation

- **Regional issues:**

Arctic, Antarctic and the Southern Ocean, alpine regions

Fast and dramatic transformations in the polar regions profoundly impact their *environment, economy and the life of local residents.*



- Changes in the Polar Regions have very significant **global implications** and are anticipated to increase in the decades to come.

“What happens in the poles does not stay in the poles”



Are key polar problems adequately addressed?

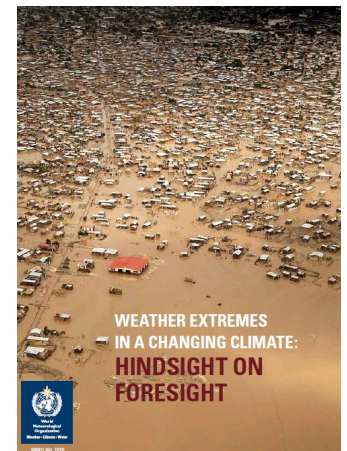
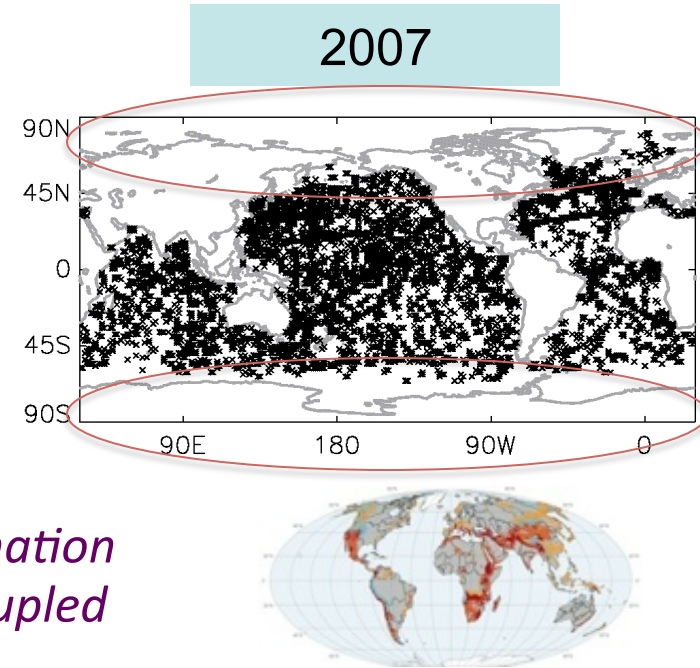
Arctic: the lack of sustainable observations and adequate information services is a **huge impediment for the sustainable development of the North.**

Southern Ocean and Antarctica: the inadequacy of the observing system + **insufficient understanding of the complex working of this region as a part of the Earth System.**

Mountain regions: the inadequacy of basic information making it difficult to understand changes in coupled human-environmental systems

Conclusion:

Main polar issues are **not addressed** at present as effectively as needed. The current **failure to effectively address these issues will be felt globally and much stronger by future generations.**



Does previous R&D, i.e. under IPY, make it possible to address the locally- and globally- important issues?

*Outcomes of IPY + other R/D: all solutions exist as prototypes.
“From knowledge – to action”*

From science → to science & sustainable implementation.



Resources!



No organization can effectively achieve its objectives in the Polar Regions without coordination and sharing resources.

*Need for a **fundamental change in approach.***

*Increased **efficiency** of using funding, the ability to **do more with less** ;
high quantifiable **return on investment** in observations, R&D;
focus on **practical use** of the research outcomes;*

Key: cooperation, coordination, and sharing the resources towards achieving an agreed set of socially valuable regional & global goals



IPI



IPI

Draft Concept Paper:

<http://internationalpolarinitiative.org>

Several sessions at the Montreal Conference. Town Hall of the AGU Fall Session in December 2012 (San Francisco, USA). Meetings of Arctic and Antarctic research communities, AC Task Force on Scientific Cooperation...

General interest. Informal support. **But no overwhelming initial enthusiasm.**

“Uphill battle”: the (societal) value of IPI not obvious to community driven largely by personal interests (what’s in it for me?). A too “top-down” proposal. Unfounded concerns among some funding agencies wrt the need for extra funding.

WMO EC-65(2013): “the initial idea of IPD fruitfully developed into the IPI concept”.

- The Steering Group to finalize the Concept of IPI.
- EC-PORS to continue representing WMO in the Steering Group.
- GIPPS, GCW, and AntON considered as prospective WMO contributions to IPI.
- EC-PORS to consult widely with international organizations and to bring forward recommendations on the optimal level and modalities of the WMO participation in IPI for consideration at EC-66.



Paris, February 2012




IPI
2012 -2013

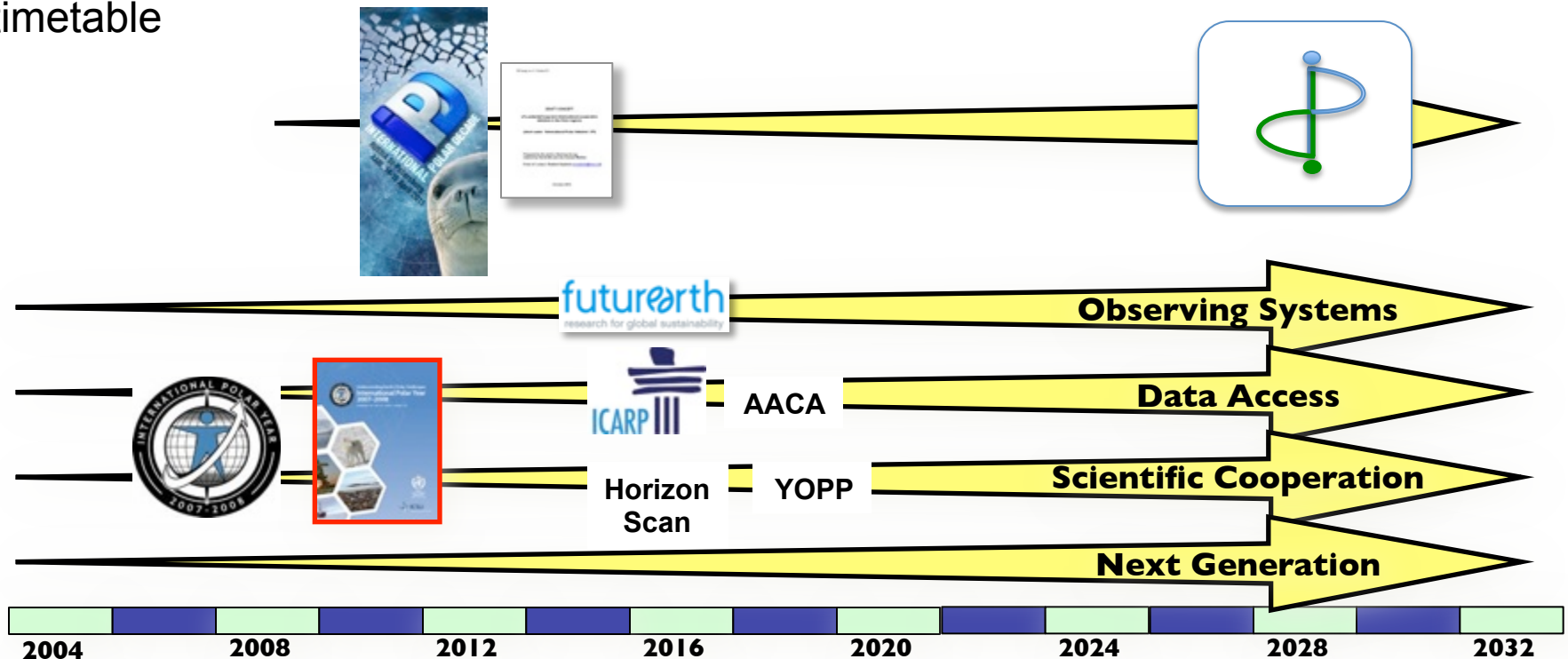
IP Alliance ?
= IPA (?!!!)

**International
Polar**



IPPI: significant progress, mounting interest

- Concise (4 p.) Concept following the ideas of IPI, exactly as requested by EC-65.
- Enthusiasm in the Steering Group + new Partners, e.g.   
- Clear understanding of highly economical nature of IPPI (e.g. “microsecretariat”)
- Understanding that IPPI is 100% compatible with “bottom-up” research planning undertaken by IASC (ICARP III), SCAR (HS), AMAP (AACA), YOPP, IAHPD-2
- Emerging interest by some funders...
- SCAR on board, AC interested, Canada, Russia, Norway interested...
- A timetable





IPPI

The Key Word: Partnership

Entails:

Cooperation, Framework Agreement, Implementation Plan of Common Activities

Why this heightened attention to "Partnership"?

Largely same ideas as for having the ECPORS-5 Agenda Item 4:

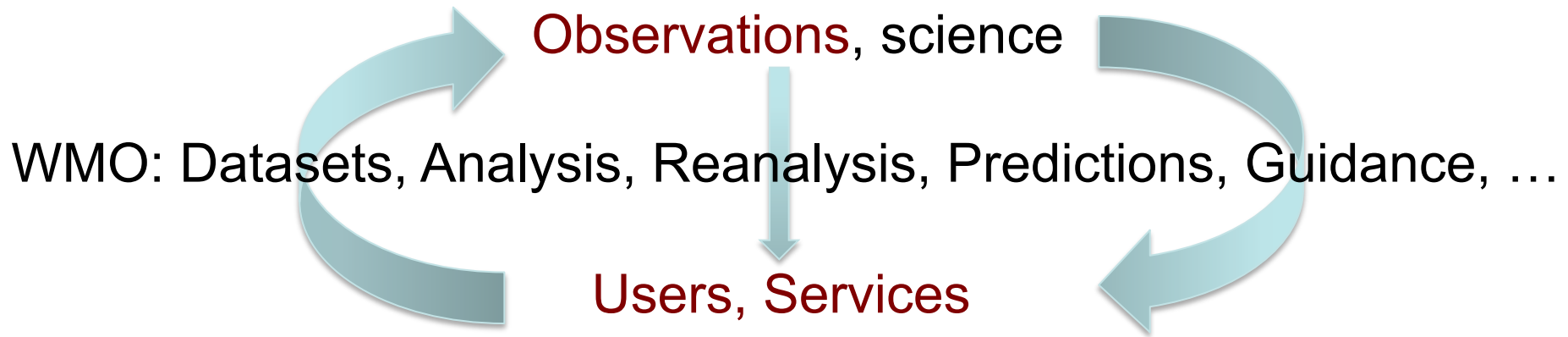
"Perspectives of Partners", but:

- a stronger *commitment* to cooperate associated to a signed Agreement
- a *good platform for cooperation on equal footing, more than just WMO-centered*
- full account account of *human dimension* (for WMO: user perspective)
- *increased coordination of plans and end-to-end approach*
- scope:
 - (bi-)polar and global
 - research, observations, data, analysis, modelling, prediction, services
 - natural and human systems
 - use of synergies between high-latitude and high-altitude environments



WMO requires sustainable improvement in information characterizing the past, current and future hydrometeorological conditions in the polar regions and how they affect the rest of the globe, and the effective use of that information.

This position is reflected in the WMO draft Strategic Plan 2016-2019



As the scope of current activities shows, to maximize the societal impact of WMO polar activities, it needs stronger contributions by partners.

(Ref to yesterday's discussion by Aimee of linkages to users)

Participation in IPPI will make WMO polar activities even more societally relevant.





An example of why IPPI may be so useful and important for WMO

Strong need for climate predictions in the Arctic and NH mid-latitudes

Emerging understanding that there is some seasonal predictability of NAO/AO and the decadal predictability of global temperatures (dependence on the North Atlantic and Arctic Oceans, stratosphere, GHG, ENSO,...). Huge value! Truly interdisciplinary research needed. Expectations comparable with pre-TOGA!

Almost complete lack of subsurface data in the Arctic Ocean, minimal % of data is exchanged, + observations supported predominantly through research funding. *IPY did not deliver* in that domain. Difficulties in progressing with SAON...

OBS4OBS won't work! Need a process involving influential end users of services based on Arctic observations. IPPI will bring users of climate predictions to the table and will create convincing argument for sustaining AO observations

Similar situation in SO but more rapid progress is currently made with SOOS – *because of existing cooperation...*



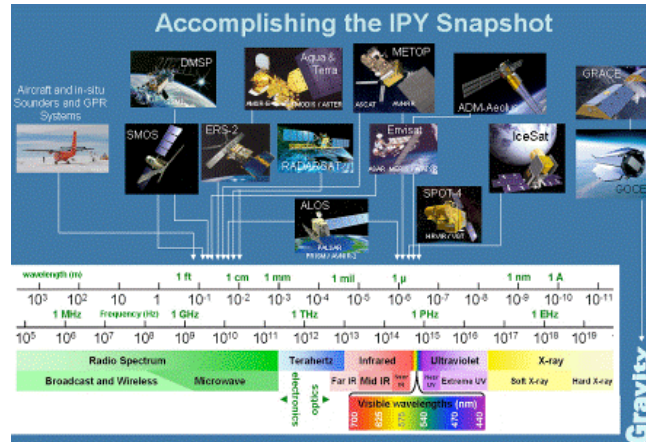


IPPI and WMO



An example of success: cryosphere:

Cooperation between satellite agencies: GIIPSY



Polar Space Task Group



But why the cryosphere only?

Similar approaches are feasible for all components of the Earth System!

E.g., for YOPP, PSTG is planning do much more than a cryospheric snapshot!

Way forward (timeline)

(a) seek comments at following meetings

- **EC-PORS February 2014 (Concept update)**
- EC-66
- AC Task Force April 2014 and June 2014
- IASC Council and ICARP III April 2014
- SCAR Horizon Scan April 2014, OSC and Delegates August 2014
- IASSA Council at ICASS VIII May 2014
- UNEP Council June 2014
- IOC Executive Council June/July 2014
- ICSU General Assembly August 2014
- Arctic Parliamentarians October 2014
- Indigenous Events ?
- Nations?



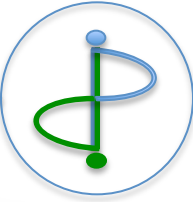
(b) update and submission of formal proposal for endorsement by end of 2014

(c) 2015: final endorsement of the concept for IPPI

- ASSW 2015 and ICARP III
- Arctic Council Ministerial Meeting
- World Meteorological Congress-17 (a draft Resolution provided, input needed)
- IOC Assembly-28

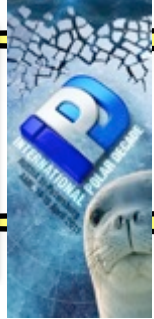
Support to IPPI mounting. "Uphill battle" turning into an "avalanche".
 The need for a broad cooperation platform was mentioned several
 times during this meeting - for services, research, observations, ...
 Hopefully ECPORS will recommend to WMO not to remain aside.

International Polar Partnership Initiative



EC PORS
 GIPPS, GCW, AntOn

Observing Systems



futureearth
 research for global sustainability

ICARP III
 3RD INTERNATIONAL CONFERENCE
 ON ARCTIC RESEARCH PLANNING



Horizon Scan

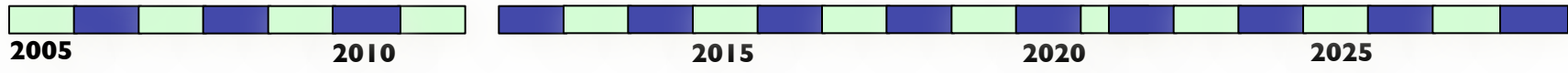


Science Cooperation

Data Access

Scientific Cooperation

Next Generation





IPPI at ECPORS-5



EC-PORS is invited to comment

- on the current status and outcomes of IPPI planning,
- the IPPI Concept
(suggest edits, please, as the Concept will be sent out next week),
- IPPI value for WMO,
- the timeline, and
- to agree on modalities of the EC-PORS contribution to further development of the Initiative, particularly in 2014, with a view of presenting the IPPI to WMO EC-66 and potentially to Cg-17 (a draft Cg-17 Resolution is available).

Input of EC-PORS (volunteers?) in working the Concept (a breakout?), ECPORS participation in the 2 meetings of the Steering Group in 2014, review of the updated Concept at EC-66 would be very good to have.

A draft Cg-17 Res. available on the ECPORS 5 Documentation website

