

In-service Aircraft for a Global Observing System

# WP-3 Preparation for

- legal structure,
- sustainable funding, and
- implementation of IAGOS in IGACO

Andreas Volz-Thomas (FZJ),

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## WP-3 : Preparation for Implementation of the New RI

No	Objective/Deliverable	Partner	due
D3.1	Report on funding structure for the new RI	FZJ	48
D3.2	Draft contract for the constitution of the RI	DLR	48
D3.3	Report on the implementation of routine aircraft observations in WMO-IGACO	WMO	48

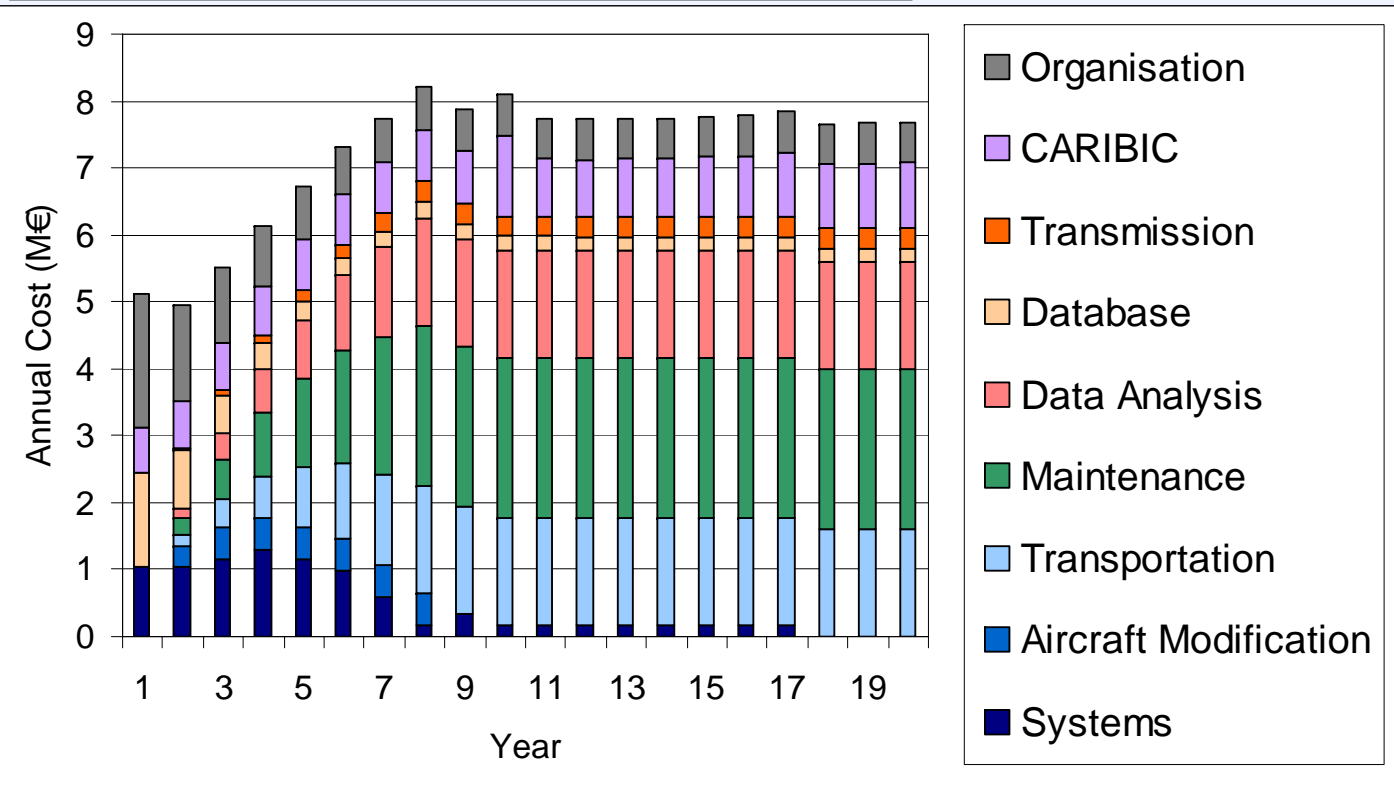
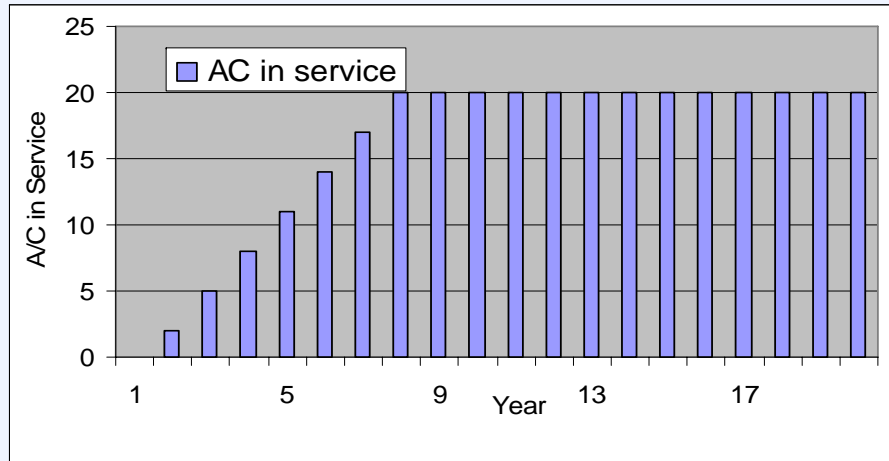
## Task 3.1 : Evaluation of the Longterm Funding Structure for the RI

Deliverable(s)	D3.1: Report on funding structure for the new RI (FZJ/M48)
Milestone(s)	<b>M3.1.1: Evaluation of costs of construction and operation of RI finalised (FZJ/M12)</b>
Status	Almost complete, final maintenance cost require input from WP4, no significant changes expected
Achievements	Construction and operation cost updated based on info from DS; CARIBIC included: 7M€/a; 120M€ total (20ac, 20a)
Deviations from Contract	<b>None</b>

# Cost

Systems	k€
P-1	100
BCP	20
H2O	20
RTTU	20
P-2a	120
P-2b	120
P-2c	120
P-2d	120
IAGOS-kit	100
AC-modification	50

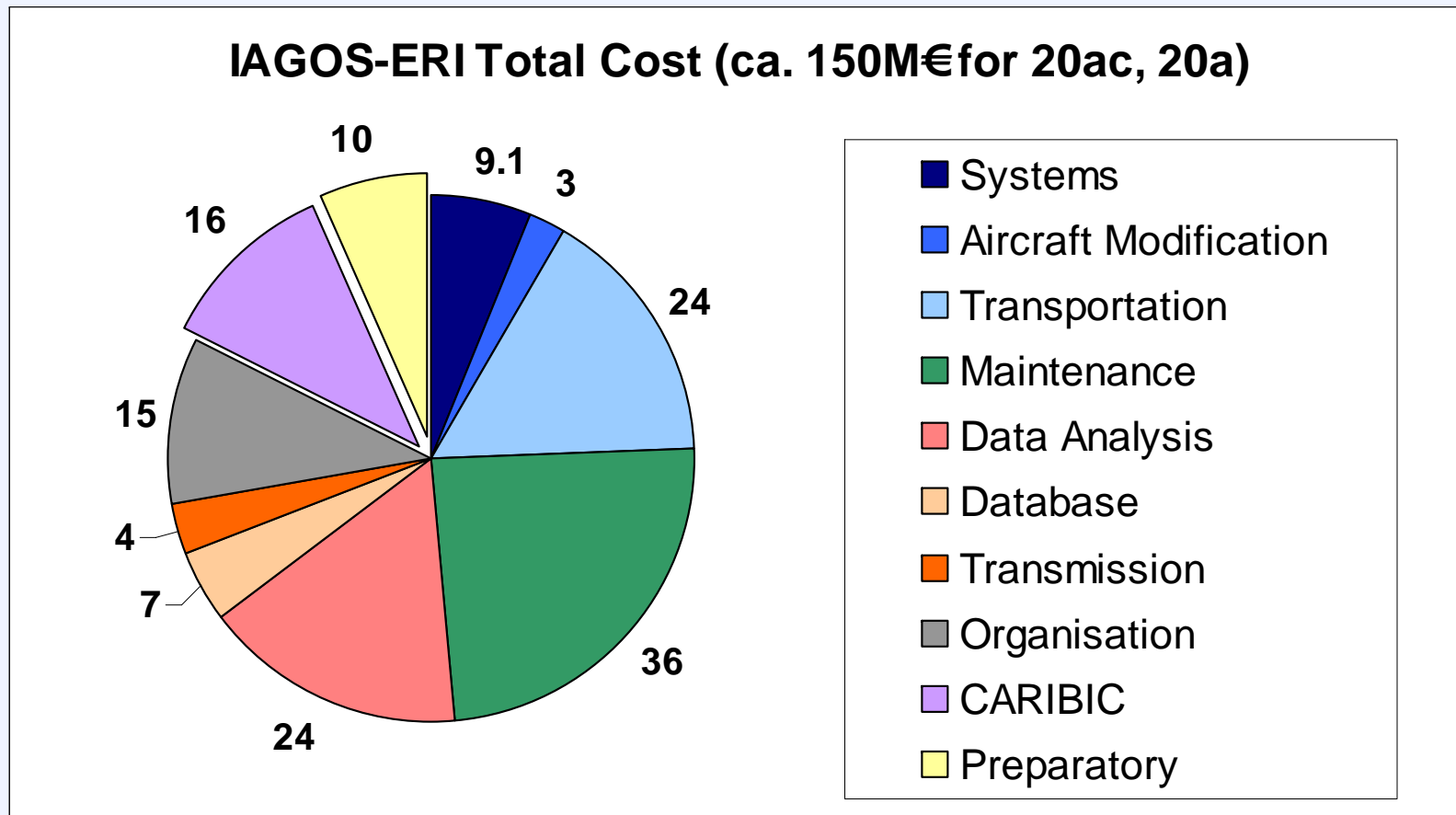
Operation	k€/ac/a
Transport	80
Maintenance	120
Data analysis	80
Database	10
Transmission	15
Organisation	300



Andreas Volz-Thomas, WP-3

IAGOS-ERI Annual Meeting 2009, Toulouse, 7.-9.10.2009

# Total Cost for IAGOS-ERI (Including CARIBIC and NRT estimate)



# IAGOS-ERI

## Commitment of Partners

Institution	Personnel (in kind)		Office & Labspace	Consumables	Total
	Pyrs/yr	MEuro/yr	MEuro/yr	MEuro/yr	MEuro/yr
FZJ	5	0.9	0.2	0.05	1.15
DLR	1	0.17	0.05	0.01	0.23
MPI-BGC	2	0.3	0.05	0.02	0.37
CNRS	8	0.9	0.2	0.05	1.15
CNRM	1	0.12	0.03	0.05	0.2
UMAN	1	0.11	0.09	0.01	0.21
UCAM	1	0.1	0.08	0.01	0.19
AIRBUS	0.3	0.05	0.03	0	0.08
<b>Total</b>	<b>19.3</b>	<b>2.648</b>	<b>0.73</b>	<b>0.2</b>	<b>3.58</b>



Andreas Volz-Thomas, WP-3

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# Summary WP3.1

- Cost estimate was updated and includes now CARIBIC and RTTU
- Construction (ca 12 Mio total):
  - FZJ received 1 Mio € for instrumentation by HGF/BMBF
  - LA received 0.5 Mio € for instrumentation by INSU-CNRS, CNES and ADEME
  - Orders in progress for AF and CAL (2010)
- Operation (6-7 Mio/a + 1Mio/a Organisation)
  - IAGOS included in GMES in-situ, might provide funding after 2012
  - Budget for IAGOS data foreseen in proposal by MACC
  - Airlines are still offering to wave transportation cost (DLH, AF, CAL)
    - requires input from WP2
- IAGOS presented to German Research Ministry (BMBF)
  - Positive reponse
  - Meeting with new Head of Division 7.2 in 2 weeks
- IAGOS and ICOS presented to French Research Ministry
  - Classified as one single TGIR-E (Très Grand Instrument de Recherche – Environnement)
  - Steering committee includes INSU-CNRS, CEA, CNES, Météo-F, INRA, ADEME
  - Next meeting (October 23): request for national budget under review



# Other

- Deviations from Annex I
  - *None*
- Use of Resources
  - Formally very little in order to avoid overlap with IAGOS-DS
  - ca. 3 PM institutional resources invested
- Actions for second year
  - *cost need some reevaluation from operation of 1<sup>st</sup> a/c, for RTTU, and for new packages 2*
  - *Continue establishing funding from D, F, UK*
  - *Agree on funding from interested countries (Taiwan, USA)*
  - *Try to involve other countries (Greece, Finland, Australia,...)*
  - *Formalise contribution by Airlines (WP 2)*

# Task 3.2 : Legal Framework for Financing and Operation of the RI

Hans Schlager, DLR

Deliverable(s)	D3.2: Draft contract for the constitution of the RI (DLR/M48)
Milestone(s)	<b>M3.2.1: Review of possible legal forms of the RI-consortium (DLR/M12)</b>
Status	Important criteria for IAGOS RI defined; Review of possible legal structures for IAGOS performed. (to be discussed and agreed during Annual Meeting)
Achievements	Draft of Report for M3.2.1 prepared
Deviations from Contract	None

# Principle Characteristic of IAGOS RI

Criterion for RI	IAGOS aim (tbc)
General nature	non-profit, for the public good, transparent rules, equality between partners, open for collaborations with external parties
Recognition, visibility	recognisable by all partner states, visible and accepted as joint European research venture
Governance structure	minimum number of bodies (General Assembly, Directorate with Coordination office, Advisory board?), clear defined responsibilities, suitable autonomy of director/board of directors for day-to-day work, single-sited coordination office with appropriate size of staff, clear defined modalities of control by the donators

# Principle Characteristic of IAGOS RI (cont.)

Criterion for RI	IAGOS aim (tbc)
Budget	clear rules for funding in terms of contributions (in cash / in kind / staff / service), clear rules for spending, low costs for administration
Liability risks	liability should be limited to the contributions of the donators and assets of the consortium
Lifetime	long-lasting sustainable infrastructure
Fiscal status	non-profit with tax privileges
Creation time frame	in accordance with IAGOS-ERI schedule

# Choice of Suitable RI for IAGOS

Legal form	Con-tract	EEIG	EGTC	JU	SE	ERIC	SPE	LLC	AS	FO
Easy creation	+	+	-	-	-	+	+	+	+	+
Limited liability	+	-	-	+	+	+	+	+	+	+
European venture	-	+	+	+	+	+	+	-	-	-
governance structure	-	+	-	-	-	+	+	+	+	-
tax privileges	-	+	-	-	-	+	+	+	+	+
member-ship	-	-	-	-	-	+	-	+	+	-
Legal form available	+	+	+	+	+	+	-	+	+	+

# Conclusions and Action Items

- ERIC, Limited-liability company, and Association are in principle suitable legal forms for IAGOS
- ERIC is now available, point of discussion: dependency from EC, participation of profit companies
- Association/company: lack of European character can be minimized by the establishment of a board of directors

## **Als:**

- selection of legal form (ERIC, Association or Company) - EC Workshop 30 Oct 09 will provide additional input
- selection of host country (registration and site of coordination office, needed for all possible forms)
- decision on single director or board of directors
- decision on institutions participating in directorate and chair

## **Deviations from DoW (Annex I)**

- none

## **Use of Resources**

- formally person-months were largely saved for coming work for this task

## **Activities in the coming year**

- to assign the participating institutions and their status (members, associates, data users, funding agencies)
- to define the activities of the grouping (manage and operate RI, assemble resources, organise joint participation in international projects, promote access to the new RI and data use)

## **Next Milestone M3.2.2 (month 24)**

- Activity plan and role of participants in the consortium

## Task 3.3 : Implementation of the IGACO Strategy for Aircraft, through the WMO-GAW Programme Including Coordination with Other International Projects

Deliverable(s)	D3.3: Report on the implementation of routine aircraft observations in WMO-IGACO (WMO/M48)
Milestone(s)	M3.3.1: Review of embedding IAGOS into IGACO data base structure (WMO/M24)
Status	GAW 2009 Workshop May WMO: Geneva Presentations and discussions of aircraft atmospheric composition observations and link to IGACO being implemented by WMO/GAW
Achievements	Improved visibility of IAGOS activities regionally and globally
Deviations from Contract	none

