Evaluating & Managing Risks in a new Integrated Awards Management System

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International Workshop on accountability
Challenges
University of Liverpool, June 19-21 2008



HUMAN FRONTIER SCIENCE PROGRAM "HFSP"

Aim of the Program:

This International program aims" to promote, through international cooperation basic research focused on the elucidation of the sophisticated and complex mechanisms of living organisms and to make the fullest possible utilization of the research results for the benefit of all humankind ..."

Members :

AU(2005), CA, FR, GER, IT, JAP, NOR (2008), NZ (2005), ROK (2005), Swits, UK, USA, EU



Human Frontier Science Program



Mid 80's Feasibility study launched by Japanese government & scientists

1987 Proposed at the Venice Economic Summit

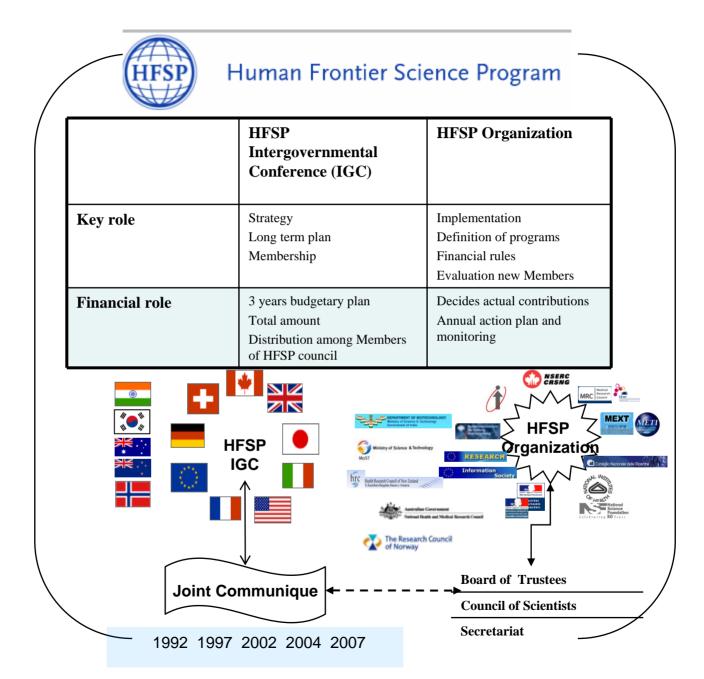
1989 Program implemented in Strasbourg/France

1990 First grants and fellowships awarded

2009 20th Anniversary



Governance Structure























Consiglio Nazionale delle Ricerche













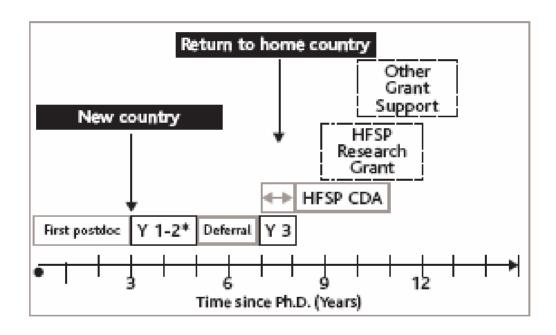








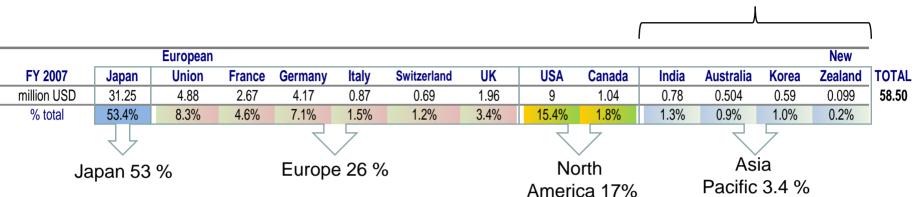
HFSP Career and Research support

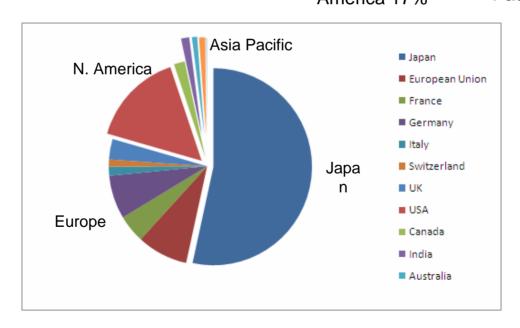


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FY 2007 contributions: 58.5 million USD



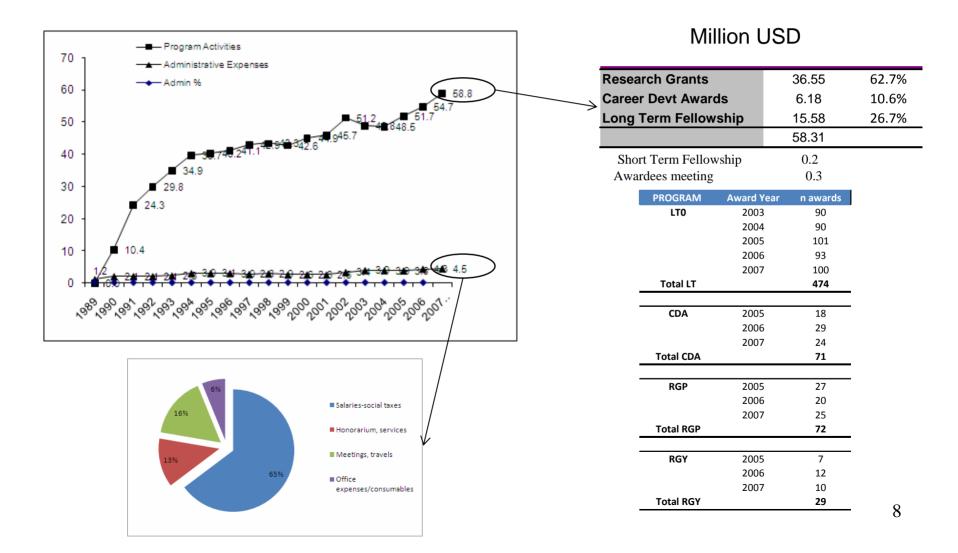


Joined since 2004



Resources utilization in FY 2007

94 % to program and 6 % to overheads





Evaluating & Managing Risks in a New Integrated Awards Management System

- Background
- General description
- IT security issues, general and specific
- Solutions



Description of project

2005

Triggered by an internal audit : dependancy on one technology for key application.

2006

Consultant analysis

Expansion to "ERP"

Public tender

Selection of one global provider

2007/2008

Development and implementation

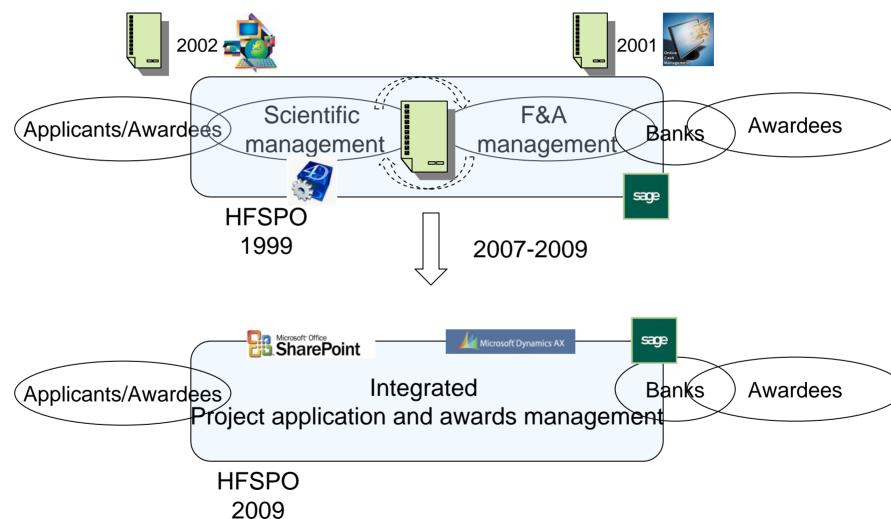
(infrastructure / F&A / Awards mngt)

2009

"Stabilisation"



General structure before and after change



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Opportunities

Opportunities and issues

State of the art technology

Choice of providers (in principle)

F&A Management	Awards management	Security and maintenance
Multicurrency	From project based to individual	Standard IT environment with alternative
Cash accounting to accrual	based	developers on the market
accounting	Greater autonomy from external	Data retrieval improved (BI) and controls
Seamless link with awards mangt	developers	easier
- 10	Greater flexibility for users in	Remote back up
Cashflow optimizing	configuring application interface according to their workflow	Redundancy and resiliency improved ?
	requirements	Maintenance cost down ?
	Opens potential for future	
	developments such as online	
	reporting by awardees	

Issues

Critical milestones for launch

High cost of development - maintenance cost uncertain: Return on Investment?

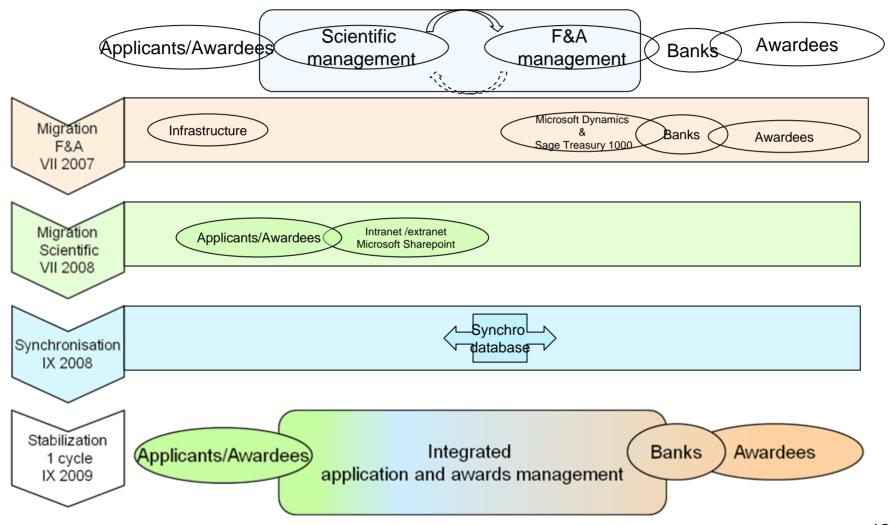
Systemic risk with multiple entry point, internal and external, and potential access to highly sensitive data (project proposals, bank accounts...): new threat?

Few supplier s(Service provider and Microsoft)

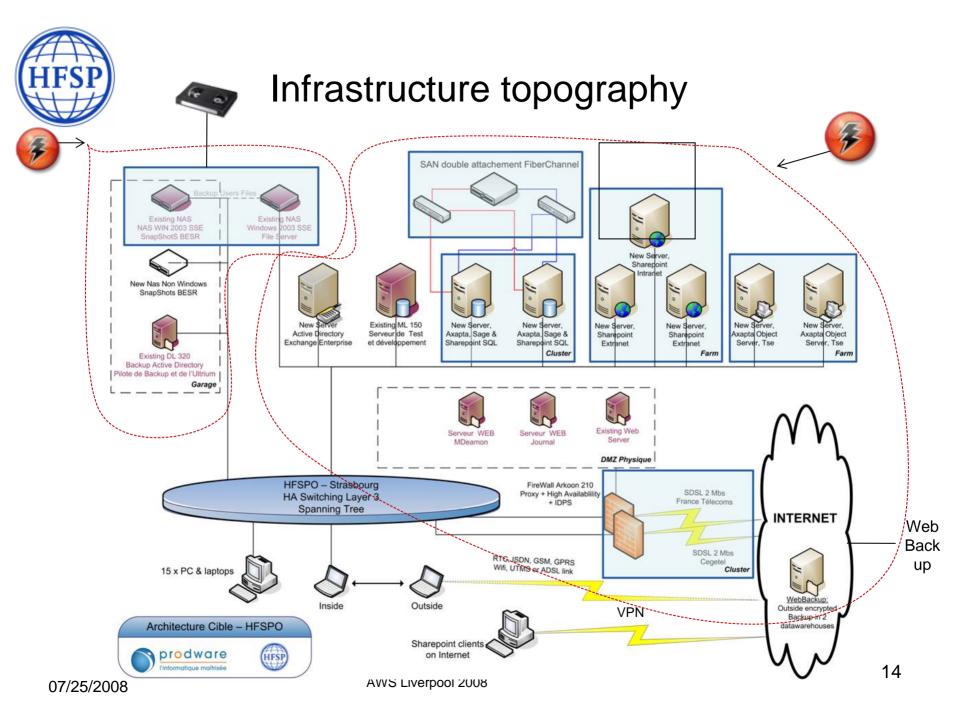
Overconfidence and split responsibility



Migration milestones



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Maintenance and support

IT Manager

- Main responsibilities:
 - preventative and curative support of infrastructure with provider
 - Bugs reporting/prioritization and solution monitoring
 - Quality control report

Service provider

- Development and maintenance infrastructure
- Development and maintenance application
- Remote back up



The Security question

- Audit/diagnostic
 - "Surrounding the perimeter"
 - Protecting key information
 - Ensuring continuity of exploitation
 - Accounting for the Human factor
- Challenge and test
- Maintenance/update
- 24/7



Environment

- Human environment:
 - Security charter
 - "Social engineering"
 - Phishing
- Physical environment
 - Fire
 - Water
 - Power
 - Access
 - Back up archives



Protect access to data

- Identification users
 - Login / password
 - Biometric
- Wi-Fi authentification protocole WAP
- File security
 - File sharing and access rights management
 - Encryption
 - Activity loggers



Protect applications

- Access filter
 - fire wall, DMZ
 - Antivirus, spam filter (a source of problems)
- Protection web and SQL servers
 - From extranet and intranet threats

A balance between protection and convenience



Maintenance of operating systems and softwares

- Update Windows operating systems: critical
- Update applications

challenge in an integrated environment: the "test server".

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Internet communication

- Secured communication (SSL)
- VPN









Challenging and testing protections

Brute force



and

Brain





Specific consideration about outsourcing

- Access rights staff turnover at providers level
- Remote maintenance and development: communication protocole administrators rights – hotline
- Back up
- Cost vs in house
- Importance of documentation and regular scouting of alternative providers
- Dependancy on strategic matter Ownership
- KPI
- Play cooperative but also hard ball when necessary

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Conclusion on IT Project

Very significant benefits expected: sustainability, continuity of exploitation, resources optimising, accountability, evolution.

Change management

Project governance is key (the "nice to have"!), as well as keep providers accountable: "what is not on paper has not been said".

Return on Investment: relevant metrics and benchmarking?

"An IT project can be late and finished, on time and unfinished, or within budget. At most, one can have two out of three, but an IT project that is complete, on budget, and delivered on time is almost unheard of"



Conclusion on IT Security

Higher vulnerability as a trade-off for more sophistication and complexity?

Delicate education and awareness of human factor as a source of risk

How much is real and how much is overblown?

Sharing experience with peers is difficult.



THANK YOU FOR YOUR ATTENTION

and I look forward hearing ...



07/25/2008 AWS Liverpool 2008