

APPROVED GBIF 2005-2006 DETAILED WORK PROGRAMME

ACTIVITY	COMMENTS	INVOLVEMENT					TIMELINE/MILESTONES Activity based on core funding	SUPPLEMENTARY ACTIVITY Additional activity subject to extra funds becoming available	BUDGET					
		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded		
1. Nodes and GBIF Network Implementation														
1.1 Developing and maintaining the GBIF information infrastructure														
1.1.a	GBIF Data Portal	Development and enhancement of central portal data services and user interface (including web services, provider feedback, etc.). This line item is to manage programmer contracts for the development of all parts of the portal, including the development of the HTML user interfaces and of XML data services, management of the central data index and new work to allow the portal to operate in a distributed model across different locations. There are many areas in which the portal services will be expanded (along with corresponding work on tools for accessing these services). A revised architecture and strategy document will be produced early in 2005 to outline all of these activities and to allow for the widest possible feedback.	X				+	1Q2005: Revised architecture and strategy document for portal 1Q2005: Public DiGIR service 2Q2005: XML name service 3Q2005: Revised name interface based on 1.1.c 1Q2006: Enhancements for deployment as thematic/regional portal		75		70		
1.1.b	Public metadata service	Design and implement services to allow users to search for biodiversity data resources and retrieve their metadata. This should include enhancements to the HTML user interface for the data portal and also a documented web service interface (based on current work to standardise metadata between TDWG protocols)	X				+	1Q2005: Documented design 3Q2005: First implementation		35		15		
1.1.c	Public name service	Set requirements for the design of services (HTML and XML) to offer integrated view of name data from all sources (nomenclators, GSDs, checklists) and including common names, hierarchies and concept data. Investigate methods for quality assessment, reconciliation of incongruent taxonomies and use of GUIDs. (Implementation under 1.1.a)	+		X		+	1Q2005: Documented design		15				
1.1.d	Data validation service	Validation of XML documents (metadata, specimen/observation, names, etc.) checking for conformance to protocols and for format and consistency of content. To be deployed during provider registration and as web service for providers and users to validate data (developed as a reusable library which can be extended for new checks and new schemas).	X	+	+		+	2Q2005: Documented design 4Q2005: First implementation (basic XML and format checks) 3Q2006: Second implementation (GIS and taxonomic checks)	4Q2005: Development of GIS-based validation components to check coordinates fall within expected boundaries (national, locality, sea/land)	30	60	10		

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			DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded
1.1.e	GIS Services	It is assumed that most GIS services will be developed externally to the GBIF Secretariat. As funds permit these services should be integrated into the central data portal. If funds are available, should install a GIS server within the data portal to allow polygon testing of coordinates, and should develop (or integrate from elsewhere) a service for mapping coordinates between different georeferencing standards.	X					2Q2005: Improve interfaces with existing mapping services in GBIF network (automate selection of base maps) 2006: Integrate with additional web services as they appear	4Q2005: Install GIS server integrated with GBIF data portal to support polygon-based search requests	50			
1.1.f	Registry	Operate and maintain the central UDDI registry. Add new service types and support to multiple indexing services. Investigate WSDL. Incorporate registration and look-up of codens and GUIDs. Annual licence cost.					X	2Q2005 Upgrade to UDDI v3. 2Q2005: registration of distributed services and name providers. 4Q2006: Feasibility study on WSDL access to providers.		5		5	
1.1.g	Distributed services	Roll-out of the Data Portal to allow for distributed and replicated operation. Support for parallel indexing at remote locations. Possibly operate a distributed helpdesk in the same setting.	+				X	1Q2005: First field tests of a design made in 2004. 3Q2005 enter operation.	1Q2006: Three regional and thematic indexing centres and helpdesks supported.	20	90	30	90
1.1.h	Tools inventory	Operate a forum for exchanging information on available tools and datasets using Survey Tool developed in 2003-04.	+	+	+		X	2Q2005: New functionality for online user reviews of tools and datasets					
1.1.i	Group collaboration services	Operate a platform for document management, directories and other services to support collaboration. Develop a better web-based technical discussion area. Based on evaluation results, enhancements to or replacement of CIRCA.					X	Q12005 Actions based on evaluation and planning made in 2004.	Q32005: Additional functions. Q32006: Additional functions.		20		20
1.1.j	Communications portal	Operate and modernise the public web site.					X	1Q2005: More powerful registration functions for meetings. 3Q2005: Enhanced look.					
1.1.k	Helpdesk	Provide user helpdesk for all operational services. Develop FAQ.	+				X	2Q2005: Comprehensive FAQ section linked with the best practices handbook of Nodes. 4Q2005: User experience sharing forum. 4Q2006: Automatic ticket handling.		10		10	
Subtotal for Goal 1.1 for 2005			140	0	15	0	35			190	220		
Subtotal for Goal 1.1 for 2006			95	0	0	0	45					140	110

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded	
1.2	Sharing biodiversity data	Development of tools particularly for use by data providers											
1.2.a	Packages for sharing specimen/observation data	Upgrades to specimen/observation provider software to reflect revised protocol and other enhancements. Packaging to stable releases. Possible packages for observation data and images.	+	+	+	+	X	4Q2004: Upgraded packages. Timing of deliverables depend on the results of the development projects. 2Q2005: Feasibility study of image package. 2Q2006: Feasibility study of observation package.	4Q2005: Package for capture and sharing of image data. 4Q2006: Package for capture and sharing of observation data.	60	30	60	30
1.2.b	Package for sharing name data	Equivalent to current DiGIR provider package for name data (using new TDWG names standard).	+		X			1Q2005: Documented design, 3Q2005 First implementation 3Q2006: package integrated with tools for GSD/Checklist development, error checking, online collaboration	3Q2005 package integrated with tools for GSD/Checklist development, error checking, online collaboration	15	30	15	30
1.2.c	Work with other organisations to develop models for ensuring long-term sustainability of databases	Investigate methods to ensure long-term availability of data sets, including: business models to support extended life of databases; encouragement of academic recognition for publication of taxonomic data.		X	X	+		Q4 2005- Document various approaches to long term sustainability					
1.2.d	Data use and data sharing agreements	Review agreements for use by mirror sites and portals.	+	+	+	X	+	Q1-Q2 2005. Integrate new considerations into GBIF agreements					
1.2.e	Implement the GB9 recommendations on IPRs. Further develop policy guidance.	Explore and develop options for the GBIF Network (guidelines, codes of best practices, codes of conduct, copyleft vs. copyright, etc.)	+	+	+	X	+	Q1-Q4 2005: Guidelines or codes of conduct are developed as appropriate. Q1-Q2 2006: Update of materials as needed		20		10	
Subtotal for Goal 1.2 for 2005			0	0	15	20	60			95	60	85	60
Subtotal for Goal 1.2 for 2006			0	0	15	10	60					85	60

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded	
1.3 Presenting biodiversity data	Development of tools particularly for use by GBIF Participant nodes												
1.3.a	Packages for accessing metadata	Client packages to query central metadata service (to be integrated with client specimen/observation and names packages).	X					1Q2005: Documented design 4Q2005: First implementation (Java) 2Q2006: Second implementation (PHP)		25		25	
1.3.b	Packages for accessing name data	Client packages to query names providers (allow portals and toolkits to use name data from ECAT and elsewhere).	X		+			1Q2005: Documented design 4Q2005: First implementation (Java) 2Q2006: Second implementation (PHP)		15		20	
1.3.c	Participant node toolkits	Maintain/improve toolkit for maintaining directories of institutions, collections and people. Connect the toolkit to the GBIF registry and metadata service and make use of existing BioCAsE software.	+			+	X	2Q2005: New toolkit. 2Q2006: Upgraded toolkit.		30		30	
1.3.d	Data portal package	Package components from GBIF Data Portal for deployment by mirror sites, Participant nodes and thematic networks (including data indexing tools and index replication). Implementation is included under 1.1.a. This line item is for packaging and distribution.	X		+		+	1Q2006: Distribution of package for creation of thematic/regional portals based on GBIF central services and data nodes					
1.3.e	Best practices handbook for Participant nodes	Maintain a web resource and printed document with guidance on manage a Participant node.	+			+	X	1Q2005: Dynamic website for BPH based on the printed document made in 2004. 1Q2006 Enhanced dynamic BPH.		20		10	
Subtotal for Goal 1.3 for 2005			40	0	0	0	50		90	0			
Subtotal for Goal 1.3 for 2006			45	0	0	0	40					85	0
SUBTOTAL FOR GOAL 1 (NODES and GBIF Network Implementation) for 2005			180	0	30	20	145		375	280			
SUBTOTAL FOR GOAL 1 (NODES and GBIF Network Implementation) for 2006			140	0	15	10	145					310	170

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded	
2. Digital Biodiversity Science	In 2005 GBIF will work to establish foundations on which scientists can start to carry out scientific activity in a fully digital environment. The eventual goal is to abandon paper entry of information, and to move to ensure that materials are digitally captured from the start												
2.1 Infrastructure and Standards for the Exchange of Biodiversity Data													
2.1.a	Global Identifier infrastructure	Investigate options for central services to manage globally unique identifiers (e.g. for institutions, collections, specimens/observations, publications, taxon concepts) and implement necessary infrastructure. Integrate with relevant data standards and tools. The core budget supports a basic approach with a single workshop prior to a pilot implementation. The supplementary unfunded plan would support a more thorough international evaluation and debate, with funds for a robust initial implementation.	X				+	1Q2005: Suggested architecture presented as white paper 2Q2005: Workshop to review suggestion and plan first implementation 3Q2005: First pilot implementation 1Q2006: Review of pilot findings 3Q2006: First open public implementation	1Q2005: First workshop to review requirements and technologies, establish subgroups (e.g.: names, collections, architecture) 1-3Q2005: Web-based discussion and development of proposals in subgroups 3Q2005: Second workshop to review findings and recommendations 4Q2005: Recommended models and architecture presented at TDWG 1Q2006: Central services implemented and in use	30	150	15	
2.1.b	Ongoing updates to TDWG standards	Revisions and updates to ABCD, DwC, DiGIR, SDD, Names, etc. The core budget covers a number of small meetings and workshops as required. The supplementary unfunded plan would support the establishment of a TDWG secretariat with two full-time staff and a software development budget to develop and maintain biodiversity data standards.	X	+	+		+	2005: 2 or 3 workshops to allow TDWG working groups to meet 2006: 2 or 3 workshops to allow TDWG working groups to meet	2005: Establish TDWG Secretariat (2 staff, 2 programmers) to establish standards development process, coordinate subgroup meetings and build reference implementations of software tools 2006: Continuing operation of TDWG Secretariat (seeking stable funding)	40	490	40	490
2.1.c	Schema repository	Central resource for public registration of mappings between different biodiversity schemas and to allow tools to discover information about biodiversity-related schemas.C5	X				+	2Q2005: Basic repository of schema versions in use (including mapping between related concepts) 2Q2006: Automatic generation of style sheets to transform between related schemas		15		15	
2.1.d	SDD integration	Basic indexing of SDD resources (by taxon). If extra funds available, integrate a dynamic key interface.	X					3Q2005: Indexing of first SDD resources 1Q2006: Client software packages to access SDD resources	2Q2006: Develop dynamic key interface based on SDD data resources	15		30	50
Subtotal for Goal 2.1 for 2005			100	0	0	0	0			100	640		
Subtotal for Goal 2.1 for 2006			100	0	0	0	0					100	540

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2.2 Integrating and Linking Biodiversity Data Sources														
2.2.a	Species Bank	Research into models for development of a Species Bank and the development of prototypes. The activities in this area will depend greatly on workshops to be held late in 2004. Additional workshops are likely in 2005. The milestones indicated are development activities which are likely to be required as foundations for Species Bank.	X	+	+	+	+	2Q2005: Agree keywords for use in classification of biodiversity data resources	3Q2005: Documented design for a web service architecture for exchange of links to unstructured data classified using keywords and taxon 1Q2006: First integration of unstructured data resources through GBIF data portal (see Architecture document under General Resource Service)		60		60	
2.2.b	Linkages to molecular data	Establish bidirectional linkages between GBIF data and GenBank, etc. using GUIDs to reference in both directions. Identify data and possible integration models (Work with database group from Barcode initiative)	X	+			+	2Q2005: Identify key partners and agree interfaces 1Q2006: First implementations of two-way integration between specimens and sequences based on GUID models from 2.1.a	4Q2005: Implemented interfaces in GBIF portal allowing key partners to link directly to data on specimens and taxa of interest. Implemented modifications to HTML interface to link to external sequence data. 2Q2006: Implemented integration of sequence data in XML query responses through data portal.	10	50	30	50	
2.2.c	Linkages to ecological data	Linkages with ecological projects (e.g. SEEK, LTER). Exchange of information with GFIS. Actively participate in the formation of the GISIN. Possible pilot project with conservation organisations for using GBIF data for management of protected areas.	X	+	+	+	+	3Q2005: Identify key ecological data resources to link with GBIF index 2Q2006: Ecological linkages visible through GBIF data portal (HTML)	4Q2005: Develop and document plan to include taxon-based information from ecological data sets within GBIF data services 4Q2006: Implement plan		50	10	50	
2.2.d	Linkages to palaeontological data	Identify possible linkages to palaeontological resources, especially in relation to recent species.	X				+	4Q2005: Document potential linkages with web-based palaeontological resources	4Q2006: Links to palaeontological data resources visible through GBIF data portal				50	
2.2.e	Collaborating and interaction; keeping in touch with larger taxonomy related international projects	e.g. Barcode of Life Initiative, Encyclopedia of Earth's Species, GTI, GSPC, GISP	+	+	X	+	+	1Q2005 Consultation to set Seed Money priorities Q12006 Documents on collaboration and data sharing						
Subtotal for Goal 2.2 for 2005			10	0	0	0	0			10	160			
Subtotal for Goal 2.2 for 2006			40	0	0	0	0					40	210	

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded		
2.3 Developing Digital Content														
2.3.a	Support for digitisation projects	Seed money grants to support development of content to expand the GBIF network through new specimen digitization initiatives, data liberation initiatives and the exploration of innovative approaches to digitization. Priority areas to be developed through a gap analysis of current network content and through stake holder consultations.	+	X		+		Q4-2004 Announce 2005-6 RFP Q4-2005 Award 2005-6 Seed Money	Expansion of seed money grant program by 16 additional grants	350	800	350	800	
2.3.b	Support for names cataloguing projects	Seed Money grants to support the enhancement of ECAT. Gap analysis and stakeholder consultation to develop priorities. Ensure that RFP and proposal template is accessible to everybody.	+		X			Q4-2004 Announce 2005-6 RFP Q4-2005 Award 2005-6 seed money	Expansion of seed money grant program by an additional 16 grants	200	400	215	400	
2.3.c	Accelerate the development of the Catalogue of Life	Contract with the CoL Consortium to accelerate development of the Catalogue. Set criteria for the delivery of names data, specifying which taxonomic groups to give higher priority. Second and third year of contracted three years.			X			Q4-2004 Work with CoL partners to identify priority taxa for funding and set target dates and estimated numbers for delivery of names Q2/3/4-2005 Quarterly review of progress with CoL partners Q4-2005 Work with CoL partners to identify priority taxa for funding and set target dates and estimated numbers for delivery of names Q2/3/4-2006 Quarterly review of progress with CoL partners		160		170		
2.3.d	Assess efficiency of digitization processes	Analyse and document efficient, cost effective approaches to digitization		X		+			2005 Comparatively test various approaches to digitization.		10			
2.3.e	Review data quality issues for digital content	Analyse issues related to data quality of digital biodiversity content	+	X		+			2005-6 Survey user groups on issues related to data quality		10		10	
2.3.f	Update review of digitisation software packages	Ongoing activity incorporating new information as it becomes available on digitization software packages	+	X				Q4-2005 Update current information						
2.3.g	Expand and refine survey of natural history collections by working with Nodes, Regional Networks and Systematic Societies	Develop strategic plan to initiate expansion and refine our understanding of the global distribution of Natural History Collection as a baseline in support of global initiatives such as GTI		X				Q2-2005 Develop strategic plan Q3-2005-2006 Implement plan	Q4-2005 Implement expanded survey Q4-2006 Build on outcome of work completed in 2005	15	50	10	30	
2.3.h	Investigation of Taxonomic Expert Networks/Online Monographs/Formalised Scrutiny Systems	Examine how GBIF can support online communities of taxonomists in developing and managing content for taxa. GUIDs are essential in making things work together.	+		X		+	Q2-2005 Community forming process, e.g. Stakeholder conference, workshop, web conference	Q3-2005: Development of tools, integrated with name provider package (WP 1.2.c)	10	50			
2.3.i	Review of software packages for the capture and management of observational species occurrence data	Make information on publicly available software for the capture and management of observational data accessible to GBIF participants.	+	X				2006 Review available software				5		

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2.3.j	Develop recommendations and guidelines for the development and utilization of volunteer observational networks	Document the experiences of existing observational networks to help other GBIF participants develop similar networks of information contributors	+	X		+	+		Q2-2006 Review existing approaches				10
2.3.k	Develop recommendations and guidelines for the digitization of paper based archives of biodiversity data	Document the current state of the art in digitizing paper based archives	+	X	+		+		Q2-2006 Review existing best practices				10
Subtotal for Goal 2.2 for 2005			0	365	370	0	0			735	1320		
Subtotal for Goal 2.2 for 2006			0	365	385	0	0					750	1260
SUBTOTAL FOR GOAL 2 (Digital Biodiversity Science) for 2005			110	365	370	0	0			845	2120		
SUBTOTAL FOR GOAL 2 (Digital Biodiversity Science) for 2006			140	365	385	0	0					890	2010

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded		
3.	Furthering Participation, impact and benefits of GBIF	Considering how GBIF can realise its potential by supporting the widest possible communities. This includes gathering feedback on directions pursued.												
3.1	Strengthen cooperation with major international initiatives	Highlight the contributions that GBIF can make to the work of relevant initiatives concerned with biodiversity, and reach out to and influence decision-makers												
3.1a	Continue collaboration with CBD	Continue support to GTI, GSPC, GISP. Engage in the 2010 initiative												
3.1b	Reach out to key-decision makers and influence CBD and other international BD fora	Highlight GBIF's role and contributions at CBD-SBSTTA, COP and other fora as appropriate												
3.1c	Use of GBIF data to address issues of concern (e.g. 2010 assessment)	+	+	+	+	+	Q 1-4 2005/2006- Participate in meetings of conventions and other user groups, including those developing 2010 assessment tools; actively promote benefits and uses of GBIF data							
3.1d	Participate at key biodiversity-related international fora and conventions: Highlight the contributions that GBIF can make to their work and promote GBIF	Reach out to new conventions which require biodiversity data and effective search tools (i.e., Ramsar, CITES, etc.)												
3.1e	Further cooperation with ENBI's work packages and explore working relationships with other regional initiatives	+	+	+	X	+	Q 1-4 (2005-06). Participate at WP discussions and workshops. Actively promote GBIF goals while getting involved in their work packages/programs.							
Subtotal for Goal 3.1 for 2005			0	0	0	15	0			15	0			
Subtotal for Goal 3.1 for 2006			0	0	0	15	0					15	0	

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3.2	Increase Participation and funding												
3.2a	Increase GBIF membership by 10%		+	+	+	X	+	Q 2 (2005): Develop a strategy to attain more members, particularly Voting Participants and promote the active engagement of members to provide data through GBIF. Q3-Q4 (2005) and Q1-Q4 (2006) implement the strategy.					
3.2b	Increase supplementary funds					X		Q 4 (2005) Organize donors conference Q 4(2006) Organize donors conference	10			10	
Subtotal for Goal 3.2 for 2005			0	0	0	10	0		10	0			
Subtotal for Goal 3.2 for 2006			0	0	0	10	0					10	0
3.3	Increase visibility of GBIF												
3.3h	Call for tenders for 2005 and 2006 Demo Projects		+	+	+	X		Q 2 (2005) and Q 2 (2006): Demo Projects addresses issues of high visibility and impact for GBIF	50			50	
3.3i	Promote the results of the 3rd year review.		+	+	+	+	+	Q1/2 2005-Ascertain from Participants what materials would be most helpful to them Q3/4 2005-Produce and distribute materials					
3.3j	Promote benefits of GBIF to scientific audiences		+	+	+	+	+	Q1-4 2005, Q1-4 2006-Select, attend and make presentations about GBIF at high-profile scientific meetings					
3.3k	Raise GBIF profile with media		+	+	+	+	+	Q3 2004-Publicise implementation of GUIDs Q1 2006-Publicise initial implementation of linkage to molecular data Q2 2006-Publicise implementation of linkage to ecological data					
Subtotal for Goal 3.3 for 2005			0	0	0	50	0		50	0			
Subtotal for Goal 3.3 for 2006			0	0	0	50	0					50	0
SUBTOTAL FOR GOAL 3 (Furthering the impact and benefits of GBIF) for 2005			0	0	0	75	0		75	0			
SUBTOTAL FOR GOAL 3 (Furthering the impact and benefits of GBIF) for 2006			0	0	0	75	0					75	0

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4. Training and capacity building in biodiversity informatics													
4.1 Expand human capacities to increase the on-line availability of biodiversity data													
4.1.a	Data provider training	Courses on becoming a provider of species/observation data and name data using GBIF standards and protocols.				X	+	Q2 and Q4 (2005-06): Together with ICT plan and implement 1 training course to facilitate the provision of biodiversity data.	2005: Increase the number of trainees and training workshops 2006: Increase the number of trainees and training workshops	20	50	20	50
4.1.b	Training in digitisation	Document approaches on rapid data capture and cleaning. Develop a library of software tools and associated documentation. Promote training workshops in partnerships with GBIF participants.	+	X			+	Q2-4-2005 Develop documentation and library of software tools Q4-2005 Training workshops 2006 - Refine and hold additional workshops	2005 - Expand number of workshops 2006 - Expand number of workshops	25	50	25	40
4.1.c	Update Best Practices Handbook on Digitization	The best practices handbook in digitisation will be updated and distributed as new materials become available		X			+	Q1-4 2005 Expand and update content Q1-4 2006 Expand and update content		10		10	
Subtotal for Goal 4.1 for 2005			0	35	0	20	0			55	100		
Subtotal for Goal 4.1 for 2006			0	35	0	20	0					55	90

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		DADI	DIGIT	ECAT	OCB					2005 Core	2005 Unfunded	2006 Core	2006 Unfunded	
4.2	Expand the use of electronic tools and know-how by our Participants	Promote effective communication among GBIF members and training in data uses to benefit wide audiences												
4.2.a	Technical briefings for GB members (1h/GB mtg)	+	+	+	+		X	2Q2005, 4Q2005, 2Q2006, 4Q2006: Presentations						
4.2.b	Training in CIRCA (or its replacement) for Interest Group leaders							X	2Q2005, 4Q2005, 2Q2006, 4Q2006: One half day classes.					
4.2.c	Promote N-S, N-N and S-S scientific collaboration: (a) training of staff in data sharing/repatriation of data and information (b) how to use GBIF data (data modelling) (c) Provide basic training in biodiversity informatics particularly in developing countries and consider regional experiences.			+			X	+	Q 2-4 2005-06: Workshop on data uses (modelling)	Core funding needs to be supplemented to run the modelling workshops	20	200	30	200
4.2.d	Further GBIF mentoring program						X	+	Q-4 2005-06: at least 2 GBIF members benefit/year 2005-6: provide USD 25K per year to support Nodes Liaison Officer	2005-06 More participants to benefit	55	100	55	100
4.2.e	Provide a more focussed support, particularly to least developing countries, to establish and develop their nodes and bridge the digital divide.	+	+	+			X	+	Q2-Q4 2005-06: 1-2 country members are brought up to speed.	2005-06 More participants to benefit	30	100	40	100
Subtotal for Goal 4.2 for 2005		0	0	0	0	105	0				105	400		
Subtotal for Goal 4.2 for 2006		0	0	0	0	125	0						125	400

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		DADI	DIGIT	ECAT	OCB	ICT			2005 Core	2005 Unfunded	2006 Core	2006 Unfunded	
4.3	Promote the emerging field of biodiversity informatics	Works towards the generation of a cadre of biodiversity informaticists to bring species-level data onto the internet.											
4.3.a	GBIF courses in biodiversity informatics.	+	+	+	X	+	Q 1-4 (2005): Planning of courses, curricula, identification of faculty and involvement of GBIF/UNESCO Chairs Q 1-4 (2006) Implementation of the courses	2005-06 Course to be provided to more students and in different parts of the world.	45	150	45	150	
4.3.b	GBIF/UNESCO-Biodiversity Informatics Chairs program	+			X		Q 4: 2005: New call for the Chairs initiative						
Subtotal for Goal 4.2 for 2005		0	0	0	45	0			45	150	45	150	
Subtotal for Goal 4.2 for 2006		0	0	0	45	0					45	150	
SUBTOTAL FOR GOAL 4 (Training and Overall Capacity Building) for 2005		0	35	0	170	0			205	650			
SUBTOTAL FOR GOAL 4 (Training and Overall Capacity Building) for 2006		0	35	0	190	0					225	640	
GRAND TOTALS FOR 2005 WORK PROGRAMME		290	400	400	265	145			1500	3050			
GRAND TOTALS FOR 2006 WORK PROGRAMME		280	400	400	275	145					1500	2820	