

**Objective 4:** Priority setting and financing of WTG and member initiatives on creating meta-databases, by harmonizing existing databases with “long-tail data”, to address questions on evolution of life, evolution of geodynamics, evolution of earth materials and evolution of climate.

Implementation	Outcomes	Deliverables		
		Year 1	Years 2-3	Years 4-5
<p>(i) DDE aims to transform earth science by harmonizing global geoscience data and sharing global geoscience knowledge that could nurture a deep-time data driven research paradigm.</p> <p>(ii) The example of GBDB in China is worth emulating: GBDB pays non-specialists to input reams of data gleaned from earth science journals covering Chinese findings. Then, paleontologists and stratigraphers review the data for accuracy and consistency, and information technology specialists curate the database and create software to search and analyze the data. Consistent funding also contributed to GBDB’s success.</p>	(i) DDE SC undertakes a review of ongoing efforts of WTGs to provide GC, EC, the Secretariat and members and partners of DDE an understanding of the range of databases that could be expected to emerge from them and issues and problems related to comparability of standards and other aspects that are likely to impact user-friendliness of the databases	(i) SC requests all WTGs and FMs (Founding Members) to provide brief descriptions (1-2 pages) of work they would undertake as part of their contributions to DDE. They would be requested to define their expectations on how the outcomes of their work could lead to (a) harmonization of data they generate into existing databases, and (b) bring together data	(i) Secretariat, in collaboration with concerned FMs, WTGs and partners launches ts campaigns to support the top 5 ventures for database establishment.	(i) Review of the performance of the 2 earliest database creation ventures from the previous biennium and lessons learned shared with members and partners for use in designing and developing future initiatives.
	(ii) DDE SC in consultation with WTGs leaders, members and partners identifies and prioritizes those		(ii) Support needed for the execution of at least 2 of the 5 generated and activities for database establishment initiated.	(ii) 2 databases launched and operational with measures for receiving regular feedback from users of the data bases outlined.
			(iii) outcome of campaigns to raise support for the remaining three reviewed	

<p>(iii) Databases resulting from DDE efforts must use the same standards and references. The DDE Task Group (TG) on standards could assist the WGs (Working Groups) that choose to collaborate to develop new, harmonized meta-databases through the provision of guidance and organizing training courses etc.</p> <p>(iv) Data, information, results, outputs generated by some combinations of FMs and WTGs could be more amenable to harmonization and creating new, meta-databases than others. The 4E themes and the large number of research questions described under each one of them by the DDE WP could serve as a guide to identify the combinations of FMs and WTGs, which, with necessary support from the DDE cyberinfrastructure group, could generate “easy and interesting wins” for</p>	<p>collaborations between WTGs that have the best chances of delivering successful outcomes similar to that delivered by GBDB within the next 5-year period.</p> <p>(iii) SC, in collaboration with the Secretariat identifies and describes the resource needs, including funding, for creating at least 5 databases similar to GBDB that has the best chances of success during the 5-year schedule of this plan;</p> <p>(iv) Secretariat, in collaboration with the relevant Members and partners mobilizes the necessary resources for creation, testing and validation of at least</p>	<p>from two or more FMs and/or WTGs to generate new meta databases.</p> <p>(ii) SC reviews all descriptions received from WTGs to establish the 10 best cases of database creation that have the likelihood of success during the 2019-2029, time frame of the WP.</p> <p>(iii) SC prioritizes the top 5, out of the 10, and invites the concerned FMs, WTGs and partners to prepare requests for mobilizing support for</p>	<p>and changes, including replacing one or more of them whose chances for attracting support deemed minimal being by others from the next 5-best options, made as appropriate; and</p> <p>(iv) Efforts to mobilize support needed for the execution of an additional 2 database creation initiated.</p>	<p>(iii) Support for creating at least 2 additional databases mobilized and necessary work completed.</p> <p>(iv) Identification of additional 5 ventures with high potential for success from the original top 10 identified by SC in year 1 and/or from new opportunities that may have risen during years 2-3 for support campaigns for implementation as part of the next 5 years of DDE work beyond the time frame of this MTP.</p>
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creating innovative, new meta databases within the next 5 years.	5 databases similar to that of GBDB; they could be the result of combining existing databases or establishing new ones where the potential for establishment had been long recognized but not been realized due to unavailability of resources and/or data sciences expertise.	financing the top 5 ventures.		
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