Introduction

The Partnership Network Knowledge Base (PNKB) is being developed to provide connectivity and deliver content for the research information needs of NASA's Applied Science Program and related scientific communities of practice. Data has been collected which will permit users to identify and analyze the current relationships and potential interactions between organizations within the community of practice.

The PNKB will provide an integrated, interactive, and comprehensive knowledge base of the NASA Earth Science environment. The PNKB will provide an interactive set of web pages that will allow users to search and discover information about NASA resources and expertise. The PNKB will also allow users to view the web pages of other participants in the community and learn about their research interests and expertise.

The PNKB will be developed as an online knowledge base with a user-friendly interface. The PNKB will be accessible via the internet, and will be available to all users who are interested in NASA research and development.

The PNKB will be a valuable tool for researchers, educators, and other members of the community of practice. It will provide a comprehensive source of information about NASA's Earth Science research and development activities, and will help to promote collaboration and knowledge sharing among the community's members.

Project

The purpose of the PNKB is to provide a web-based interface for the community of practice, allowing users to search and discover information about NASA's Earth Science research and development activities. The PNKB will be a valuable tool for researchers, educators, and other members of the community of practice, providing a comprehensive source of information about NASA's Earth Science research and development activities, and helping to promote collaboration and knowledge sharing among the community's members.

Design

The PNKB is designed to deliver visualizations of network connectivity and provide detailed data on the interactions. These visualizations and descriptions will allow an analysis of network function on various scales and to assess relationships impacting network health, identifying major players, and the impact of the network on various policies. The PNKB is being developed using Microsoft Visio and Metis, the latter used by Troux Technologies.

Development

Development of the PNKB is following a proposal system engineering approach to validate the requirements, compatibility with NASA's Enterprise Architecture, and the needs of the user community to enable an effective web-enabled knowledge base. A specification of the requirements for the PNKB has been developed, which includes the following:

1. Definition of the scope and purpose of the PNKB
2. Development of a comprehensive requirements document
3. Development of a technical design document
4. Development of a project plan
5. Development of a test plan

Table 2 provides an outline of the project, including the anticipated delivery dates and the expected deliverables.

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The final deliverables will be presented in a comprehensive report which will be reviewed by the project team. The report will be made available to all interested parties.

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Conclusion

The development of the PNKB is ongoing, and the system is currently in the testing phase. It is expected that the PNKB will be available for use by the community of practice within the next few months.