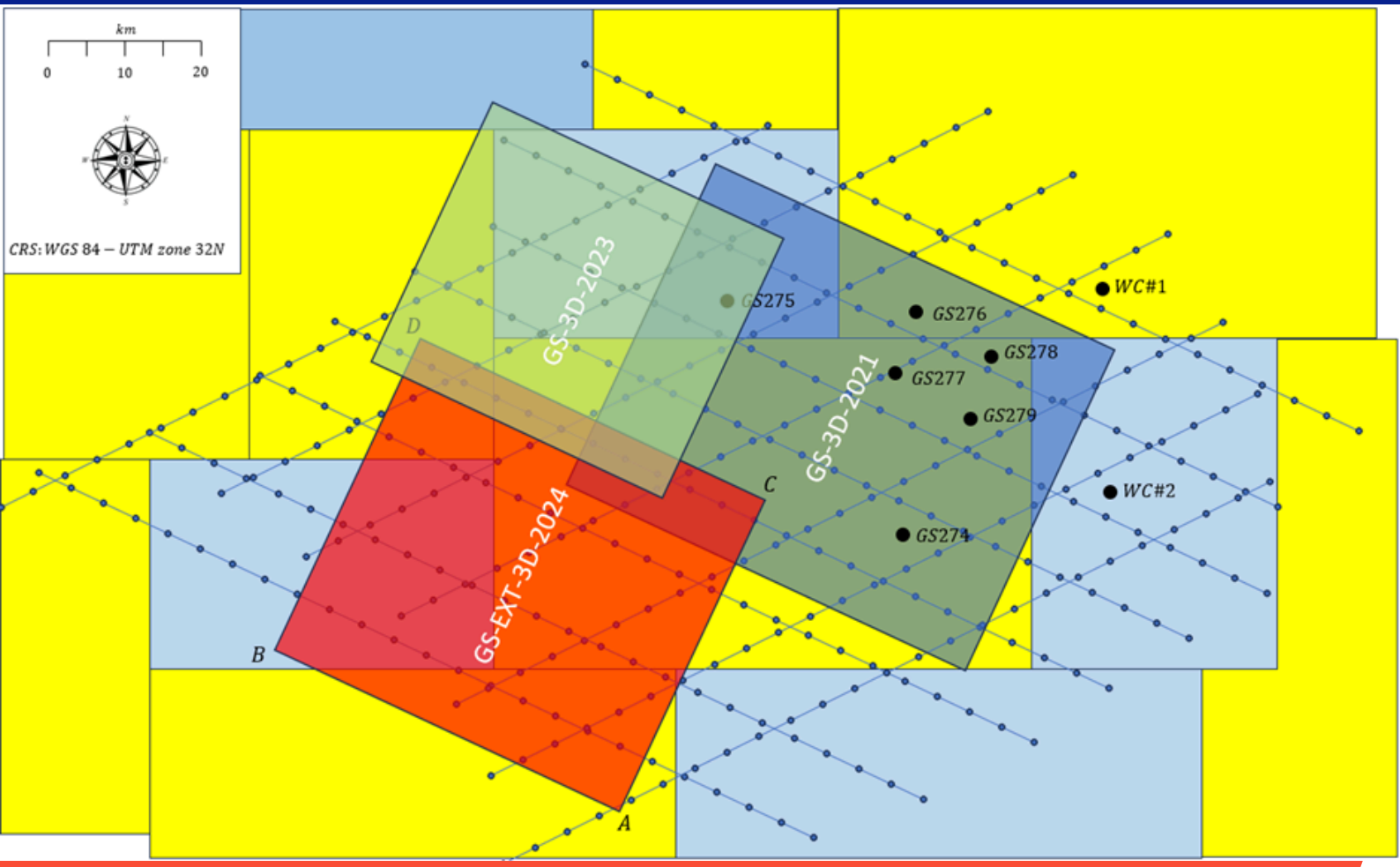
Positioning Data Management

Managing geo-spatial data associated with the exploration data life cycle is not high up the priority list of many geoscience teams. If the importance of geo-spatial data is not underscored there is a real chance that horizontal and positioning errors will be introduced throughout the remainder of the data life cycle. Seismic data is only a stepping stone in the exploration cycle but one from which important business decisions are made, for example: selecting a proposed drilling location. Positioning errors only increase as the data life cycle progresses, they do not vanish.



Data format compliance and correct representation of the metadata form two critical components of data management. Storing data in a corporate database that is possesses both is a rare commodity.

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Use and compliance to common exchange file formats for different data types, e.g., seismic positioning data (P1/90, P1/11), seismic grids for binning (P6/98, P6/11) and wellbore survey data (P7/17). Adaption of the common header will ensure consistency of geodetic data management throughout the project.

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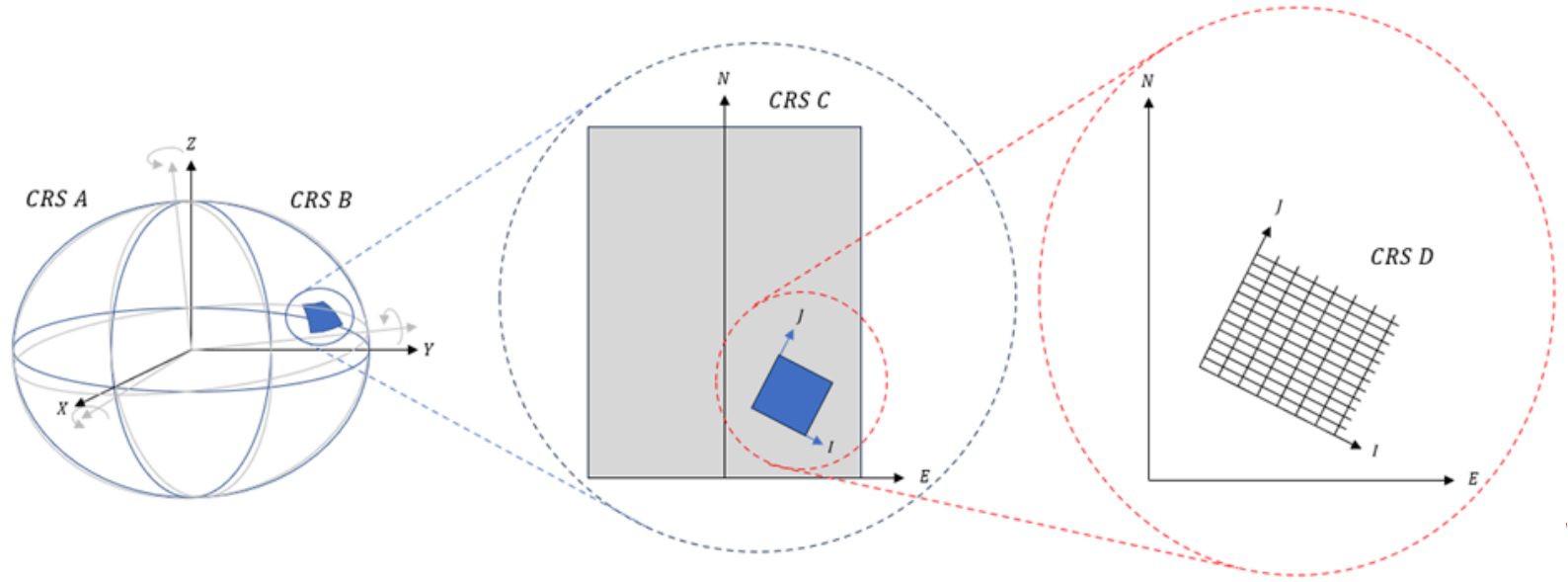
Parameters associated with CRSs, conversions and transformations, used by your organisation, is obligatory to establishing the necessary geodetic framework. Uncontrolled referencing, especially from open-source software, can introduce time-consuming problems and errors, especially if audit trails are not conducted. Maintaining a corporate catalogue within which the centralised geodetic database resides will ensure all users, services , and applications apply the same system of record.



Understanding how geodetic data are managed and used across the range of subsurface, GIS and computational applications removes geo-spatial error being introduced by different systems using different definitions. The company provides analysts with the required expertise to determine the consistency with which application libraries apply coordinate operations on projects containing important seismic and well related data.

The company offers a range of synchronisation tools that interface between the central geodetic database and popular applications, including SLB Petrel/Studio and ESRI ArcGIS to ensure the compliance required across your organisation.

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