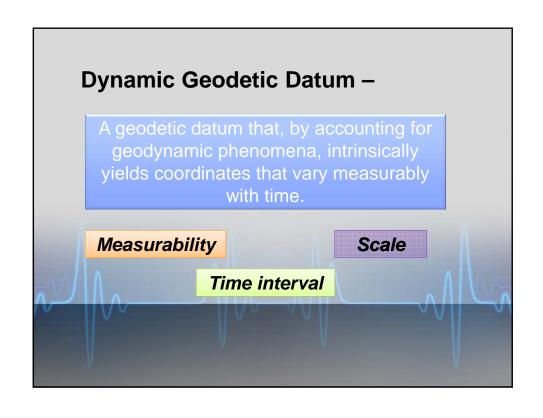
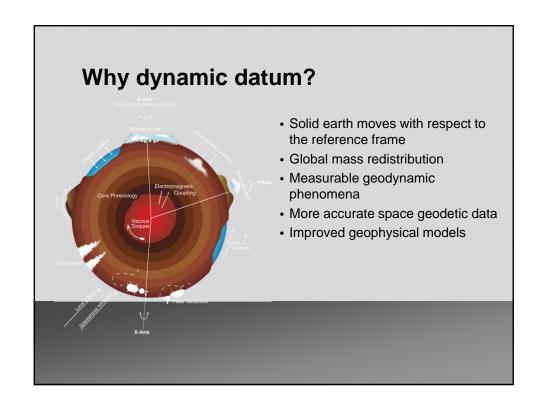


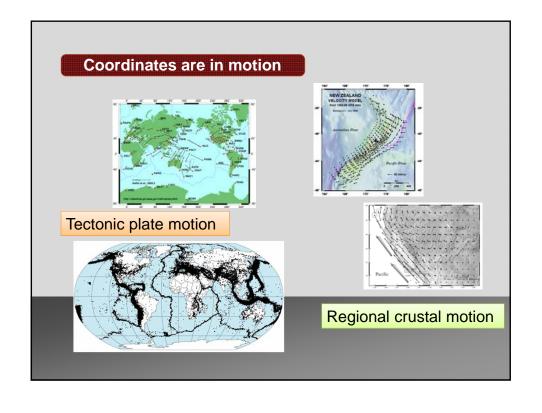
Outline • Motivation • Reasons for dynamic datums • Managing dynamic data • GIS approach • Issues to address • Conclusion

Motivation

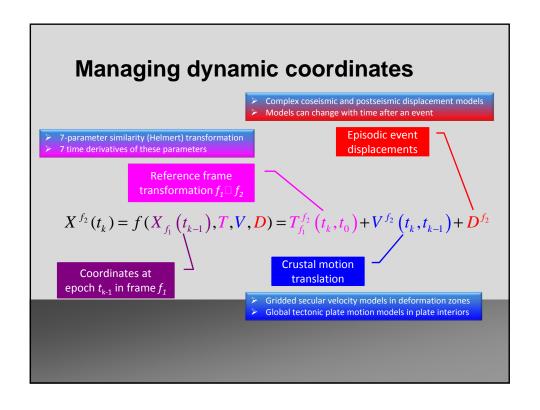
- ITRF pervasiveness datum of choice
- GNSS pervasiveness
- Measureable crustal motion
- Regional spatial data infrastructures: INSPIRE
 - Infrastructure for Spatial Information in the European Community
- Broad scale dissemination via GIS





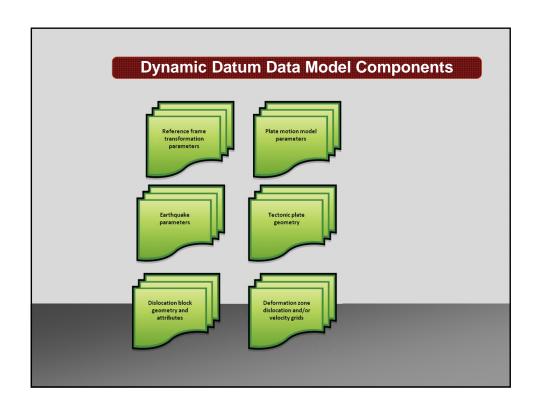


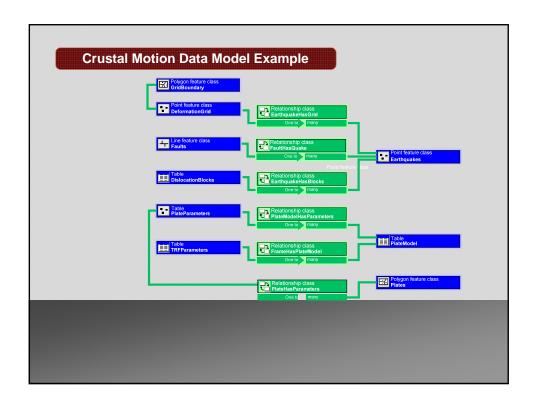


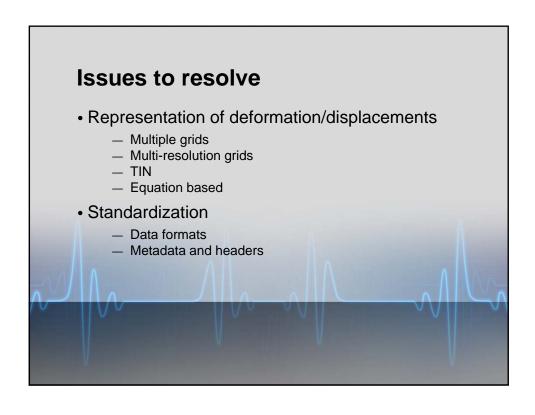


GIS approach

- Unprecedented geospatial data manager
- Structure data and model inter-relationships
- Widespread use in geospatial community
- Disseminate models and tools
- Assist in generation of models and tools
- Flexibility and extensibility







Conclusions

- · Positional coordinates are in motion
- Measurable and significant for many geospatial activities
- Dynamic geodetic datums can handle this
- Dynamic datums can be implemented in GIS
- GIS can disseminate models and tools to transform positions over time
- Problems of model representation and standardization remain to be solved



