



- The 'crème del a crème' of cadastral surveying
- Relevant to the determination of property and human rights at the highest level
- The precise determination of international boundaries a continuing requirement
- Accepted boundaries critical to social stability and resource and economic development
- Surveying is in a legal and political context



- Analysis of relevant maps and documents
- Geo referencing of relevant material of features
- Preliminary and final mapping
- Field assessment
- Survey fixing of pillars or boundary positions





- Where the demarcation follows a war or serious dispute the peace agreement will set parameters
- The demarcation is likely to be subject to carefully negotiated mandate & conditions
- Determinations may have been made by the ICJ or a boundary commission
- Adherence to historic treaties may be mandatory
- Varying levels of interpretation my be required
- Legal constraints common



Technical Demarcation Challenges

- Demarcating rivers
- Difficulty of access for pillar emplacement
- Consensus on ambiguous physical features
- Working to judicial rules of boundary
- tribunals or commissions
- Minefields

Political Challenges

- Unwillingness of a Party to accept boundary
- Limited jurisdiction of boundary commission i.e. demarcation
- Ambiguity on Maritime boundaries
- Earlier boundary decisions unsatisfactory to one or both Parties
- Perceptions of imbalance
- Presence of oil or other valuable resources
- Historic features or significance

Delimitation and Demarcation

Delimitation is the legal establishment of the limits of a boundary of territorial sovereignty often in general terms
Demarcation the marking of a boundary usually in a form that can be readily determined on the ground

Delimitation Challenges

- Lack of specificity of delimitation
- Changes between old and modern toponomy
- Changes in size and position of populated places
- Differences in the references to physical features in the treaties
- Vagueness of early treaty references

Demarcation Challenges

- Location of features which have gaps or difficulties of traceability
- Unsuspected errors in otherwise good maps or reference material
- High levels of precision to meet predetermined boundary positions
- Unidentifiable physical features
- Delineating the edges of towns or cities

Maritime Boundary Challenges

- Applying the UNCLOS requirements
- Old Charts without a horizontal datum
- Determining the thalweg boundary
- Joining and leaving the thalweg
- Ambiguous court coordinates



- Clarity of the boundary on the ground
- Coordinates as a first stage demarcation
- Populations are clear about the territorial administration
- The way is clear for collaborative resource exploitation and management.

