Making spatial data available on the desktop

Loch Lomond and The Trossachs National Park Authority (LLTNPA)

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- Where we were in 2010
- What we wanted to achieve
- Where we are now
- Where we are heading……..

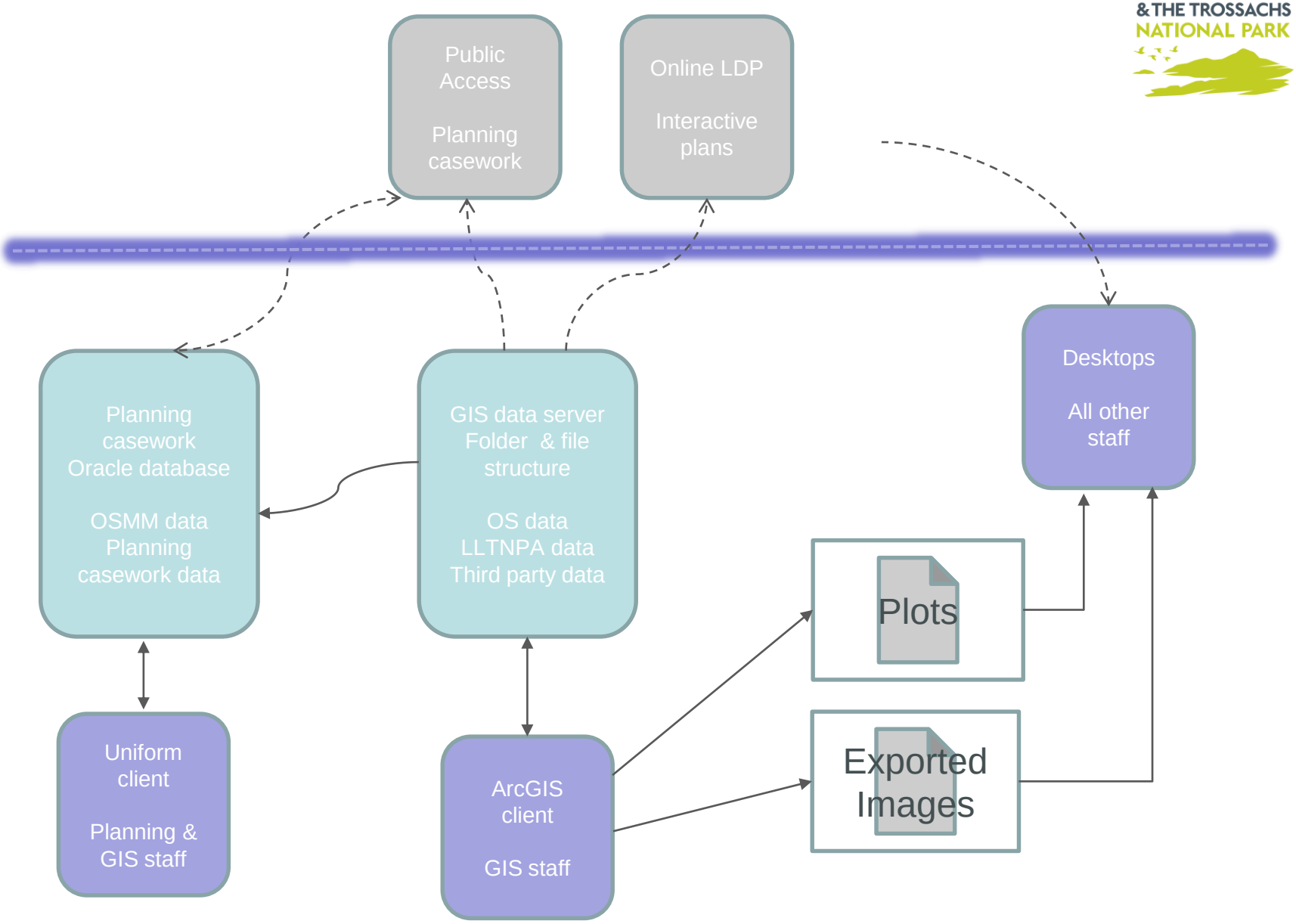
Who are we?

- LLTNPA IT\GIS team has 7 members in total and is managed by the IT Systems Manager
- Our IT colleagues support all IT hardware, infrastructure, communications and core systems
- Our 4 ½ GIS staff support just about anything that has a spatial component including…….
  - Administration and support of GIS and e-planning systems from ESRI, Cadcorp and IDOX
  - Provision of helpdesk support and training to users
  - Mapping and analysis services and technical advice to other teams
  - Data management of multiple datasets from Ordnance Survey(OS), LLTNPA, and third party data

Shared services

- The team work with our colleagues in Cairngorms National Park Authority (CNPA) on the provision of shared services to both Authorities
- The GIS team support CNPA e-planning systems which are hosted here in Balloch and also provide helpdesk support and training to users
- We are currently working with CNPA to develop and roll out their WebGIS desktop system (Cadcorp WebMapEditor)
- We are currently working with both Authorities on the development of online interactive WebMaps (Cadcorp WebMapLayers)

Where we were in 2010



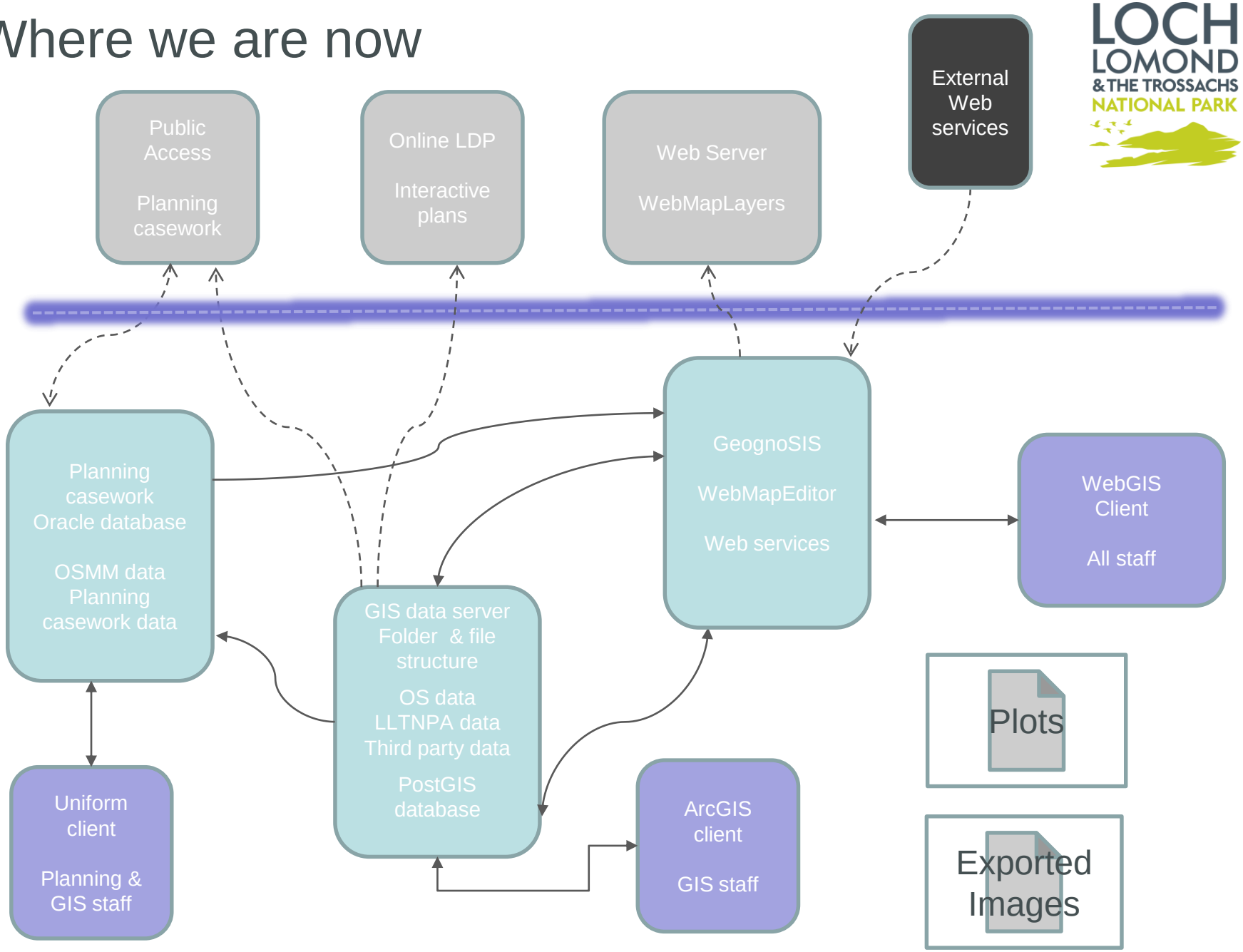
What we wanted to achieve

- Maximise the return from our investment in spatial data and enable better informed decision making
- Provide an easy to use interactive mapping solution on everyone's desktop
- Provide wider access to spatial data for all staff
- Empower staff to perform simple mapping and analysis tasks as part of their daily work
- Free up GIS staff time to work on systems support and development and more complex mapping and analysis tasks
- Potential to extend the system to Cairngorms staff desk tops
- Potential to extend the system to publish interactive maps online for public viewing

How we got to where we are now

- Carried out a requirements analysis with key staff
- Carried out an options appraisal in which we considered …
  1. Adopting a desktop solution from one of our partner organisations
  2. Adopting a fully open source based solution
  3. Procuring an off the shelf solution
  4. Adopting a hybrid approach with some in-house development and configuration, use of outside expertise from a contractor or partner, and contracted support
- Our preferred option was the hybrid approach – but we left all options open when we went out to tender
- Cadcorp's winning tender submission gave us the security of option 3 with the flexibility of option 4

Where we are now



WebGIS (WebMapEditor) developments

Current development

- General overview workspace available to all users
- Team specific workspaces to provide access to specialist data, restricted data and temporary data under development.
- Use of Active Directory groups to control workspace access
- Report a problem
- Integration with OneScotland Gazetteer
- Integration with National Biodiversity Network (NBN Gateway)
- Use of PostGIS for data capture and data editing
- Links to Oracle database to facilitate internal planning advice
- Links to OSMA web services for OS background data and Getmapping Aerial Imagery

WebGIS (WebMapEditor)

WebGIS demonstration

WebGIS (WebMapEditor) developments

Future development

- Performance improvement
- Set-up Planning data from Oracle as a gazetteer to make it easier to find and zoom to the correct case
- Set-up of other gazetteers e.g. OS 1:50K gazetteer
- Allowing users to add overlays as required
- Working with specialist groups to identify and develop additional functionality

WebMap (WebMapLayers) developments

Ongoing and future development

- Interactive mapping provision for National Park websites
- Development of Local Knowledge to provide visitor information
- Develop as mechanism to publish interactive plans online
- Use to link maps to online consultations
- Citizen Science – use of Report it and possible development to extend its capability
- Potential use to publish OpenData and meet Inspire obligations
- Publication of LLTNPA data as web services e.g. to SEWeb

WebMap (WebMapLayers)

WebMap demonstration

Have we achieved what we wanted

- Maximise the return from our investment in spatial data and enable better informed decision making ✓
- Provide an easy to use interactive mapping solution on everyone's desktop ✓
- Provide wider access to spatial data for all staff ✓
- Empower staff to perform simple mapping and analysis tasks as part of their daily work ✓
- Free up GIS staff time to work on systems support and development and more complex mapping and analysis tasks ✓
- Potential to extend the system to Cairngorms staff desk tops ✓
- Potential to extend the system to publish interactive maps online for public viewing ✓

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Any questions or comments?