

## Natural Areas Program Solution Constraints

### Operational Constraints

Functional constraints are defined by the prioritized list of user tasks. These can be combined into a list of prioritized high-level deliverables as part of the work program that will control the scope of implementation.

#### The solution must...

Provide value to each member of the Natural Areas Program cross-functional team in order to achieve broad support and “buy-in”

Be championed and fully supported by Metro and NA management in response to oversight and auditor recommendations.

Improve business operations while minimizing disruptions to staff

Clearly identify systems-of-record with defined responsibilities for tracking data entities and documents

Provide acceptable systems performance (e.g., reasonably fast page loads) and user-centered design (e.g., useful and useable user interfaces) that supports efficient completion of business tasks

Minimize Metro Information Services operations and maintenance overhead

Securely store and control access to private and confidential acquisition data and documents

Be accessible from the existing Metro network infrastructure

Support and comply with applicable Metro records retention schedules

Allow stored data and documents to be reliably backed-up to ensure business continuity

Have look-and-feel style guidelines that are coordinated with the Communications team

Ensure user interfaces conform to Section 508c accessibility requirements

Improve ability to report performance measures

Facilitate quick and accurate responses to partner jurisdictions

Conform with existing bond oversight and process resolutions

## Technical Constraints

### The solution must...

- Use Metro document management systems (TRIM and SharePoint 2010) if possible
- Be designed to comply with records retention policies
- Integrate with Metro's PeopleSoft system (AP and Asset Management) as the financial system-of-record
- Integrate with existing ESRI GIS systems where possible
- Support Metro's standard Web browser, which is currently Internet Explorer 7
- Operate effectively using Metro's standard workstation configuration, which is moving to Windows 7 with Office 2010 in calendar year 2011

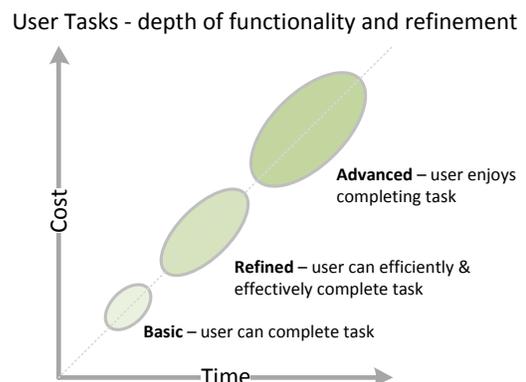
### The solution should take into consideration...

- Using PeopleSoft modules when appropriate and feasible
- Using existing 3<sup>rd</sup> party facilities management tools such as Bigfoot CMMS
- Using 3<sup>rd</sup> party real-estate contact management solutions for negotiator tools (ACT, Salesforce.com applications, etc.)
- Developing applications using the Microsoft stack (IIS, SQL Server, .NET) to enable more cost effective, long-term support and maintenance by Metro IS staff (if required)
- Leveraging Metro Active Directory for authentication
- Allowing for an external vendor to design, build, deploy, and support the NA system; most likely via VPN

## Economic Constraints

Top-down budget constraints are currently being discussed with Metro management. Spending may need to be constrained to meet annual bond administrative cost limits.

Bottoms-up budget requirements can be provided once solution alternatives are defined and high-level deliverables are identified. We will need to come to an agreement on the assumptions to use regarding the depth of functionality and refinement desired when estimating the cost of each deliverable.



## **Schedule Constraints**

No obvious schedule constraints have been uncovered. The current bond measure is approximately 1/3 completed. It would be beneficial to support the remainder of this bond with a solution. Planning for future bond measures could also benefit from structured analysis enabled by a system. Solutions that take too long to implement may not be worthwhile given the fixed duration of the current bond.

There is a preference to include system development costs in the upcoming budgeting process.