GlobeSpotter ArcGISPro Integration

Goal: Goal of the project is to make a GlobeSpotter integration in ArcGISPro

From: Harm Bruinsma   
Date: 28-08-2015

# Participants

The table below lists all Participants. Communicate updates of this document to all Participants, at least once per 2 weeks and at least by email.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Role | Name | Short name | Estimated hours | Remarks |
| Customer **¹** | Marcel de Vries | MdV |  |  |
| Team Lead **¹** | Sjoerd Brandsma | SBr |  |  |
| Cluster Lead **¹** | Bart van Andel | BvA |  |  |
| Project Lead **¹** | Harm Bruinsma | HBr |  |  |
| Architect | Harm Bruinsma | HBr |  |  |
| Developer **¹** | Harm Bruinsma | HBr |  |  |
| Observer | Sjoerd Brandsma,  Hans van Eijk | SBr,  HvE |  |  |

# Versions

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Remakrs |
| 1 | 09/07/2015 | Harm Bruinsma | Initial version |
| 2 | 15/07/2015 | Harm Bruinsma | Updated version |
| 3 | 20/08/2015 | Harm Bruinsma | Updated version |
| 4 | 28/08/2015 | Harm Bruinsma | Updated version |
|  |  |  |  |

# Planning of phases and deliverables

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Phases or deliverable** | **Wk**  **27** | **Wk**  **28** | **Wk**  **29** | **Wk**  **30** | **Wk**  **31** | **Wk**  **32** | **Wk**  **33** | **Wk**  **34** | **Wk**  **35** | **Wk**  **36** | **Wk**  **37** | **Wk**  **38** | **Wk**  **39** | **Wk**  **40** | **Wk**  **41** | **Wk**  **42** | **Wk 43** |
| 1 | Agreed phase 1 (scope, requirements and planning) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Agreed phase 2 (solution approach and test plan) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | All (development) activities bundled in a breakdown of agreed deliverables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3a | Create a basic framework |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3b | Implement the recent cyclorama layer functionality. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3c | Implement the historical cyclorama layer functionality, include the historical slider. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3d | Implement the GlobeSpotter window |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3e | Implement the viewing cone |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3f | Implement the vector layer functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3g | Implement the cyclorama search functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3h | Implement the measuring functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3i | Implement the Agreement window |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3j | Add a help button with help information |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3k | Make an installation manual |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Formal test that all requirements are met |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Documentation updated |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Documentation review & Code review |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Release <Record release date> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Formal handover to the customer that the Project is completed including a filled project satisfaction survey**¹**  <Record handover date> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **ID** | **Phases or deliverable** | **Wk**  **44** | **Wk**  **45** | **Wk**  **46** | **Wk**  **47** | **Wk**  **48** | **Wk**  **49** | **Wk**  **50** | **Wk**  **51** | **Wk**  **52** | **Wk**  **53** | **Wk**  **1** | **Wk**  **2** | **Wk**  **3** | **Wk**  **4** | **Wk**  **5** | **Wk**  **6** | **Wk 7** |
| 1 | Agreed phase 1 (scope, requirements and planning) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Agreed phase 2 (solution approach and test plan) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | All (development) activities bundled in a breakdown of agreed deliverables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3a | Create an options window which contains: login, Settings, configuration, about and agreement information. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3b | Implement the recent cyclorama layer functionality. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3c | Implement the historical cyclorama layer functionality, include the historical slider. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3d | Implement the GlobeSpotter window |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3e | Implement the viewing cone |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3f | Implement the vector layer functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3g | Implement the cyclorama search functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3h | Implement the measuring functionality |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3i | Implement the Agreement window |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3j | Add a help button with help information |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3k | Make an installation manual |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Formal test that all requirements are met |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 6 | Documentation review & Code review |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Release <Record release date> |  |  |  |  |  |  |  |  |  | **28/12** |  |  |  |  |  |  |  |
| 8 | Formal handover to the customer that the Project is completed including a filled project satisfaction survey**¹**  <Record handover date> |  |  |  |  |  |  |  |  |  |  | **4/ 1** |  |  |  |  |  |  |

# Action points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | Action | Owner | Status[[1]](#footnote-1) | Remarks |
| 1 | Install ArcGIS Pro 1.1 and the ArcGIS Pro SDK | HBr | Done |  |
| 2 | Investigate how to use Add-Ins in ArcGIS Pro | HBr | Done |  |
| 3 | Investigate how to use flash in ArcGIS Pro | HBr | Done | We use flash now, but in the next version, we will use HTML 5. |
| 4 | Investigate how to use property property pages in ArcGIS Pro | HBr | Done | The need to use property pages for the GlobeSpotter settings form |
| 5 | Investigate how we can take over the styling of text in ArcGIS Pro | HBr | Done |  |
| 6 | Investigate how the styling of objects of the map is working in ArcGIS Pro | HBr |  |  |
| 7 | Investigate how we can draw and update feature layers on the map in ArcGIS Pro | HBr |  |  |
| 8 | Investigate how we can draw static objects on the map in ArcGIS Pro | HBr |  |  |
| 9 | Investigate how measurement is working in ArcGIS Pro and how we can use it | HBr |  |  |
| 10 | Create a Git repository for the GlobeSpotter for ArcGISPro integration code | HBr | Pending |  |
| 11 | Create a SVN repository for the GlobeSpotter for ArcGISPro integration code | HBr |  |  |
| 12 | Test the recent cyclorama layer functionality | HBr |  |  |
| 13 | Test the historical cyclorama layer functionality | HBr |  |  |
| 14 | Test the GlobeSpotter functionality | HBr |  |  |
| 15 | Test the vector layer overlay functionality | HBr |  |  |
| 16 | Test the cyclorama search functionality | HBr |  |  |
| 17 | Test the measurement functionality | HBr |  |  |
| 18 | Test the local installation | JKe |  |  |
| 19 | Formally hand over GlobeSpotter for ArcGISPro release | HBr |  |  |

# Scope, requirements and Planning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Id | Actor | Feature | Purpose | Comment | Priority |
| 1 | As a user | I would like to set the login info once (username and password) |  |  | M |
| 2 | As a user | I would like to use different coordinate systems around the world |  |  | M |
| 3 | As a user | The coordinate systems for the map and the cyclorama doesn’t need to be the same |  |  | M |
| 4 | As a user | The max cyclorama viewers which have to be open at the same time can be set manual and the maximum number of cyclorama viewers which can be opened at the same time is 4 |  |  | M |
| 5 | As a user | I would like to see point, line and surface vector data overlays in the cyclorama |  |  | M |
| 6 | As a user | I would like to use styling for point, line and surface overlay data |  |  | S |
| 7 | As a user | I would like to be able to switch the vector layers in the cyclorama on and off |  |  | M |
| 8 | As a user | The maximum distance where you see a vector layer in the cyclorama is a setting that you can turn on and off. The default distance is 30 meters |  |  | M |
| 9 | As a user | I would like to see the identity information of a vector layer if I click on the vector layer in the cyclorama |  |  | M |
| 10 | As a user | I would like to see detail images in the cyclorama |  |  | M |
| 11 | As a user | I would like to see on the map if a recording contains detail images |  |  | M |
| 12 | As a user | I would like to make a local installation | Some users use local storage |  | M |
| 13 | As a user | I would like to use a proxy server | Some users use a proxy server |  | M |
| 14 | As a user | I would like to see about information | To inform the user about the GlobeSpotter Add-in |  | M |
| 15 | As a user | I would like to see the agreement information, when I log in for the first time | To inform the user about the Agreement |  | M |
| 16 | As a user | I would like to see the agreement information all the time I want | To inform the user about the agreement |  | M |
| 17 | As a user | If I reach a zoom level of 1:2000, I would like to see recordings |  |  | M |
| 18 | As a user | I would like to turn the recording layer on the map on and off |  |  | M |
| 19 | As a user | I would like to turn the recording layer in the cyclorama on and off |  |  | M |
| 20 | As a user | I would like to see the historical recordings |  |  | M |
| 21 | As a user | I would like to set the date range of the historical recordings |  |  | M |
| 22 | As a user | If I don’t have access rights to a cyclorama, I would like to see that on the map |  |  | M |
| 23 | As a user | If I click on a recording, I would like to see the image |  |  | M |
| 24 | As a user | If I open an image, I would like to see a viewing cone. The viewing cone is in the viewing direction. |  |  | M |
| 25 | As a user | I would like to search for an image with an imageId. |  |  | M |
| 26 | As a user | I would like to make a point measurement |  |  | M |
| 27 | As a user | I would like to make a line measurement |  |  | M |
| 28 | As a user | I would like to make a surface measurement |  |  | M |
| 29 | As a user | I would like to make a volume measurement |  |  | C |
| 30 | As a user | I would like to update observation points in a measurement |  |  | M |
| 31 | As a user | I would like to remove a measurement |  |  | M |
| 32 | As a user | I would like to remove observation points in a measurement |  |  | M |
| 33 | As a user | I would like to make a smart-click measurement |  |  | M |
| 34 | As a user | I would like to see the help information |  |  | M |
| 35 | As a user | I would like to use both feet and meters |  |  | M |
| 36 | As a user | I would like to make a report |  |  | W |

\*MoSCoW is used to define Priority to reach a common understanding with stakeholders on the importance they place on the delivery of each requirement.

**(M)UST** Describes a requirement that must be satisfied in the final solution for the solution to be considered a success.

**(S)HOULD** Represents a high-priority item that should be included in the solution if it is possible. This is often a critical requirement but one which can be satisfied in other ways if strictly necessary.

**(C)OULD** Describes a requirement which is considered desirable but not necessary. This will be included if time and resources permit.

**(W)ould** or Won't Represents a requirement that stakeholders have agreed will not be implemented in a given release, but may be considered for the future>

# Solution approach

<describe the solution approach and take care of formal alignment with Architect and participants for phase 2>

<Add pictures to clarify the proposed process/solution in a less technical way>

# Test approach

<describe the approach of technical and functional tests and take care of formal alignment with Architect and customer for phase 2>

# Test results

<describe test results that proof that all requirements are met >

# Communication

Standard R&D project communication:

<Formal acceptance by mail of scope, requirements and planning>

<Bi-weekly project meeting with all participants, agreements are confirmed by mail>

<Bi-weekly mail update of the project progress with a short review of the past two weeks and expectations for the coming two weeks, sent to all project participants with a copy of the latest project document>

# Evaluation results

<Fill the satisfaction survey results "√" and improvement proposals as proposed>

# Accomplished goals

In your opinion are the project goals achieved?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Time scales

In your opinion are the deliverables met within the set deadlines?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Communication

In your opinion are you sufficiently informed of the project progress?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Test results

In your opinion are the project results sufficiently tested to decrease project risks?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Suggestions for improvement

# Sustainability of project goals

In your opinion did the project goals change during the project?

Not □

Very few □

Few □

Some □

Many □

# Time scales

In your opinion were the deadlines of the deliverables realistic?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Communication

In your opinion did you get sufficient feedback from the customer(s) of the project?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Test results

In your opinion were the project participants sufficiently involved in the functional testing of the project?

Entirely □

Mostly □

Partially □

Limited □

Not □

# Suggestions for improvement

1. Open / Pending / Done / Cancelled [↑](#footnote-ref-1)