

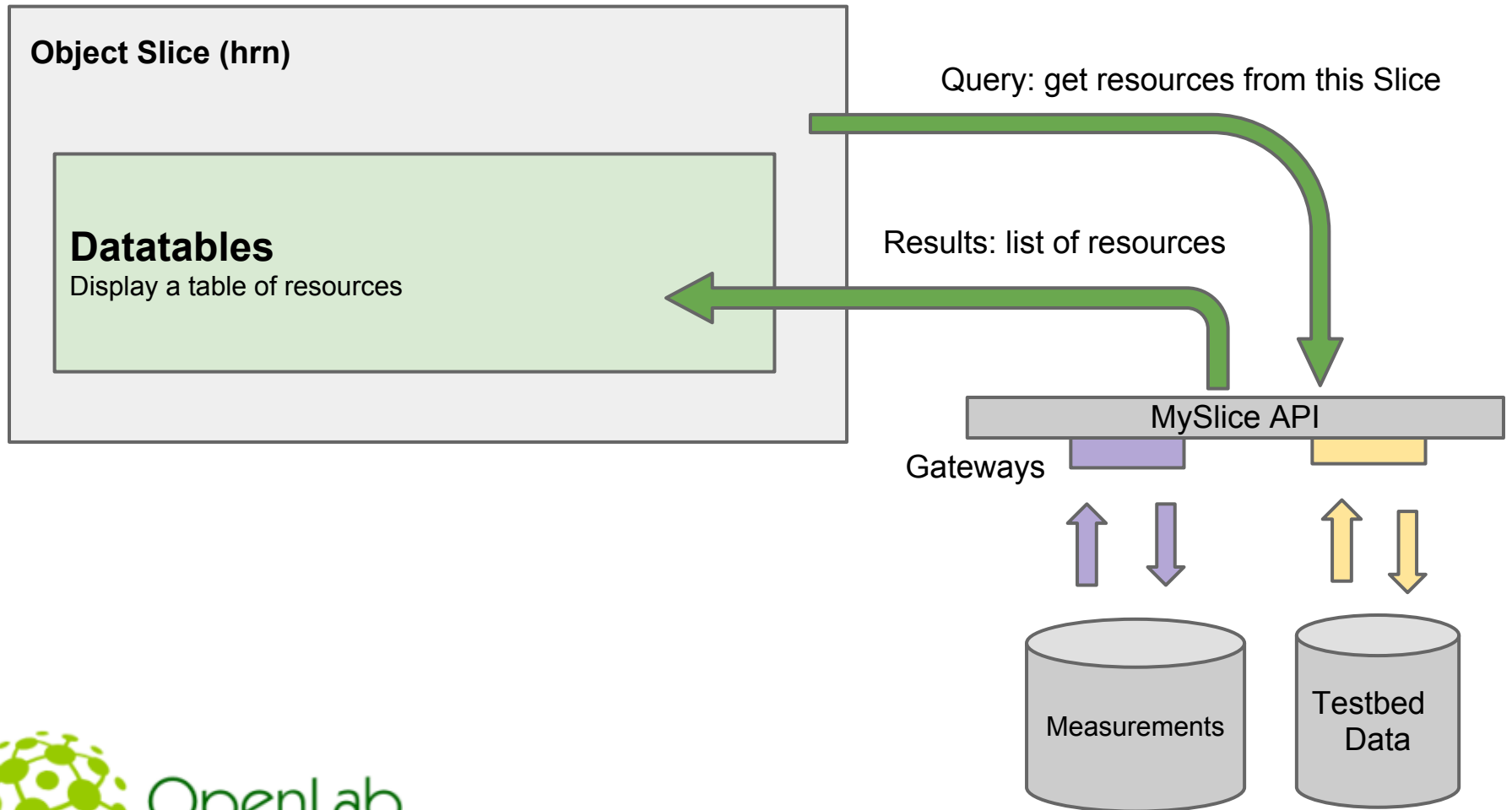
Plugfest

Paris, 23-25 January 2013

MySlice Web



MySlice Web Architecture



Plugins: Testbed resources

SimpleList

List of objects with links to each element

Datatables

Visualize resources in a tabular format, powered by javascript library : datatables.net

Map

Visualize resources (latitude/longitude properties) on a Map, powered by [GoogleMaps](https://www.google.com/maps/)

3D nodes

3D map of resources (x,y,z properties)

Developed by: [SensLab](#), [INRIA](#)

Scheduler: Visualize availability of resources and reserve timeslots.

Developed by: [INRIA](#), [NitLab](#) (Nitos), [UPMC](#)



Plugins: Filtering data

Columns (QueryEditor)

Select properties to display by checking boxes, columns are added to datatables plugin

QuickFilters

Filter the list of resources based on simple criterias

Advanced Filters

Create filters based on available fields (Metadata) using various operators

Active Filters

Visualize and remove filters used in the current query



Plugins: Advanced features

Selected Resources

Act as a shopping cart, add or remove resources before updating your slice

Query Code

Visualize the Query code that can be send directly to MySlice API

To be developed...

Download Rspec, User search preferences, Smart selection of resources,...

Please contribute ;-)



Develop your plugin

How to expose specific testbed's features ?

- 1) Install MySlice Web Frontend
- 2) Configure it & plug it to a MySlice API
- 3) Develop your plugin

1) Install MySlice Web Frontend

```
# apt-get install myslice-joomla
```

More infos:

<http://trac.myslice.info/>

2) Configure it & Plug it to the API

```
# vi /usr/share/myslice/joomla/components/com_tophat/includes/tophat_config.php  
  
define('TOPHAT_API_HOST', 'demo.myslice.info');  
define('TOPHAT_API_PATH', '/');  
define('TOPHAT_API_PORT', 7080);
```

More infos:

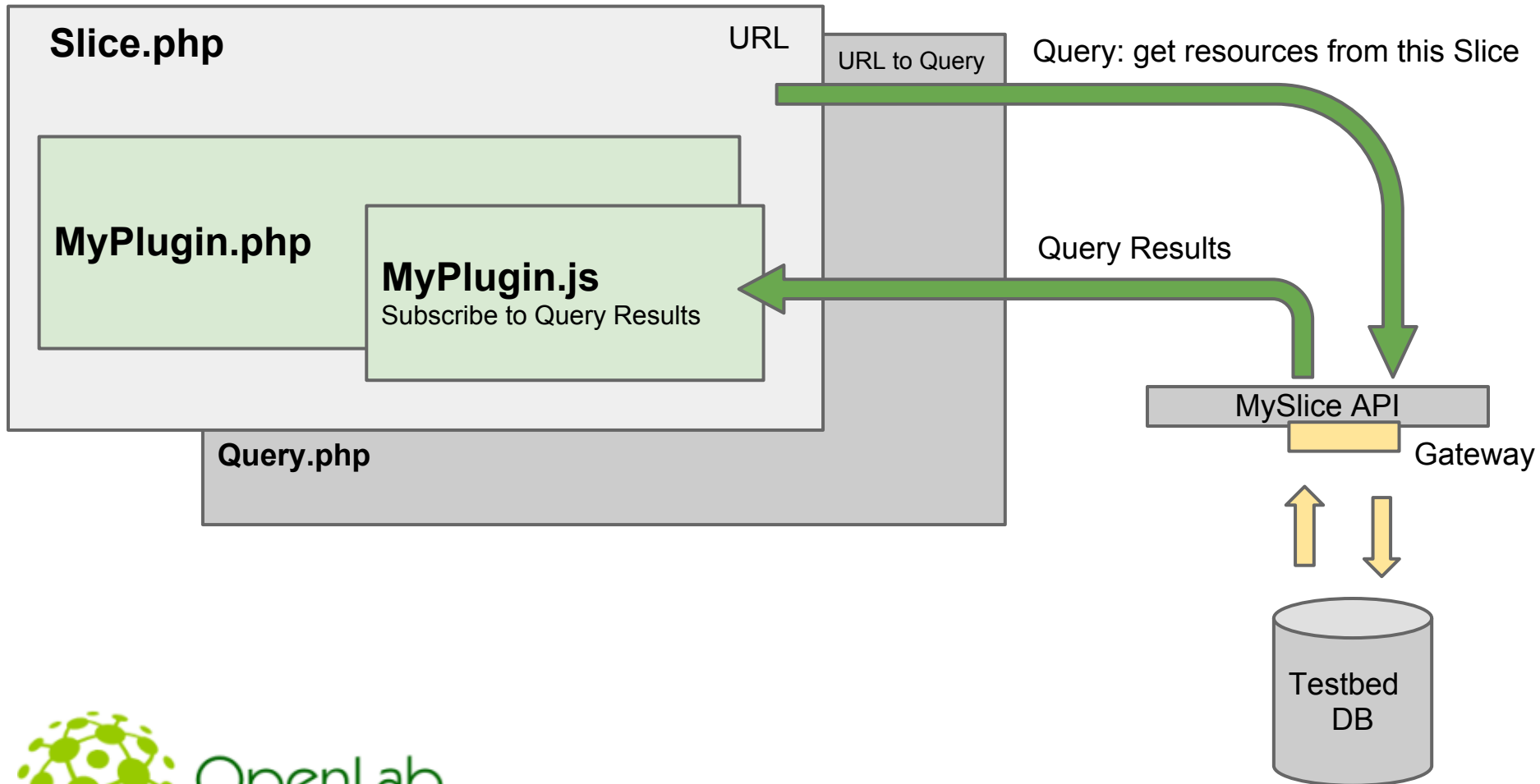
<http://trac.myslice.info/>



3) Develop your Plugin

- Create your Plugin class in PHP
- Embed your Plugin in an object render
- Javascript interactions with Queries

MySlice Web Architecture



PHP class

```
<?php
class MyPluginClass extends Plugin
{
    public function render_content() {
        // Related JS and CSS files
        Plugins::add_js('/MyPlugin/MyPlugin.js');
        Plugins::add_css('/MyPlugin/MyPlugin.css');

        // Rendering code here
        $out=Array();
        $out[] = "<div class='myStyle'>Hello World !</div>";
        // ...
        return implode($out);
    }
}

Plugins::register_plugin('MyPlugin', 'MyPluginClass');
?>
```



Embed your plugin

For example in a Slice object

```
/usr/share/myslice/joomla/components/com_tophat/includes/plugins/myslice/slice.php
```

...

```
// call the plugins
```

```
$plugin_myplug = Plugins::get('MyPlugin');  
$plugin_myplug->set_params(Array(  
    'query_uuid' => $q_rsrc->uuid  
));  
$layout->add('PLUGIN : MyPlugin', $plugin_myplug);
```

...



Javascript interactions

Publish & Subscribe system

```
init : function( options ) {
```

```
[...]
```

```
    /* subscribe to channels */
```

```
    var RESULTS_RESOURCES = '/results/' + options.query_uuid + '/changed';
```

```
    $.subscribe(RESULTS_RESOURCES, function(e, rows) { s.get_resources(rows); });
```

```
[...]
```

```
}
```

```
[...]
```

```
function MyPlugin(options) {
```

```
    this.options = options; /* member variables */
```

```
    this.current_query = null;
```

```
    var object = this; /* constructor */
```

```
    /* methods */
```

```
    this.get_resources = function(rows){
```

```
        var oResources = $('#resources-' + options.plugin_uuid);
```

```
        oResources.html("<h3>NB Resources = " + rows.length + "</h3>");
```

```
    };
```

```
}
```



Contribute to MySlice

Plug your testbed

Develop a gateway and share it

Contribute to the core development

Develop a plugin and share it

Contribute to the frontend layout

<https://git.myslice.info>



Questions?

IRC

Mailing lists

<https://lists.myslice.info>

