

# Landuse and Agricultural Management Practices web-Service (LAMPS)

for agroecosystem modeling and conservation planning  
using Cloud Service Innovation Platform (CSIP)

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## LAMPS-Client structure after unzipping:

```
...\lamps_client
  ...\lamps_data
    ...\lamps
      ...\scott.kmz
      ...\lamps-req.json
      ...service.properties
    ...\csip-test.jar
    ...lamps.bat
    ...lamps.sh
    ...Readme.txt
```

# LAMPS-Client, run example data

**Run the .bat file or type the command:**

- ...\\lamps\_client>lamps.bat

or

- ...\\lamps\_client>java -jar csip-test.jar lamps\_data

Run will open another command window.  
THEN automatically the window will close.

# LAMPS-Client, run example data

The LAMPS-Client will add Output folder in the client folder structure. (**printed bold**)

```
... \lamps_data
    ... \lamps
        ... \scott.kmz
        ... \lamps-res           -Result Folder
            ... \*.csv          -Result Files
        ... \lamps-req.json
        ... \lamps-res.json     -Result JSON File
        ... \service.properties
... \csip-test.jar
... \lamps.bat
... \lamps.sh
... \Readme.txt
```

# LAMPS-Client, run example data

To call / run the LAMPS-Client again, the user **HAS to delete** the **lamps-res.json** file. Otherwise the LAMPS-client will skip the request.

...\lamps_data	
...\lamps	
...\scott.kmz	
<b>...\lamps-res</b>	<b>-Result Folder</b>
<b>...\*.csv files</b>	<b>-Result Files</b>
...\lamps-req.json	
<b>...\lamps-res.json</b>	<b>-Result JSON File</b>
...\service.properties	
...\csip-test.jar	
...\lamps.bat	
...\lamps.sh	
...\Readme.txt	

# LAMPS-Client, run example data

To use the LAMPS-Client with user specified Area of Interest:

1.) replacement of the **geometry file**

...\lamps\_data

...\lamps

...\scott.kmz

-Geometry File

...\lamps-req.json

...\service.properties

...\csip-test.jar

...\lamps.bat

...\lamps.sh

...\Readme.txt

# LAMPS-Client, run example data

To use the LAMPS-Client with user specified Area of Interest:

2.) replacement of the geometry file name in the lamps-req.json file

```
{
  "metainfo": {
    "keep_workspace": true
  },
  "parameter": [
    {
      "name": "geometry",
      "value": "scott.kmz"
    }
  ]
}
```

(minimal parameter to run LAMPS; more optional parameter on the next slide)

# LAMPS request optional parameters:

```
{
  "name": "delta",
  "description": "delta factor to adjust the possible crop rotation order in the matching list (optional)",
  "min": "0.0",
  "max": "0.9",
  "value": "0.15"
},
{
  "name": "start_year",
  "description": "to generate an user-selected time period with the matching crop rotation; Start Year (optional)",
  "min": "2000",
  "max": "2100",
  "value": "2000"
},
{
  "name": "end_year",
  "description": "to generate an user-selected time period with the matching crop rotation; End Year (optional)",
  "min": "2001",
  "max": "2101",
  "value": "2014"
},
{
  "name": "ages_files",
  "description": "AgES-W input file generation (optional)",
  "min": "FALSE",
  "max": "TRUE",
  "value": "TRUE"
}
```