



# WORKSHOP

13. - 16. June 2022

Prague, Czech Republic



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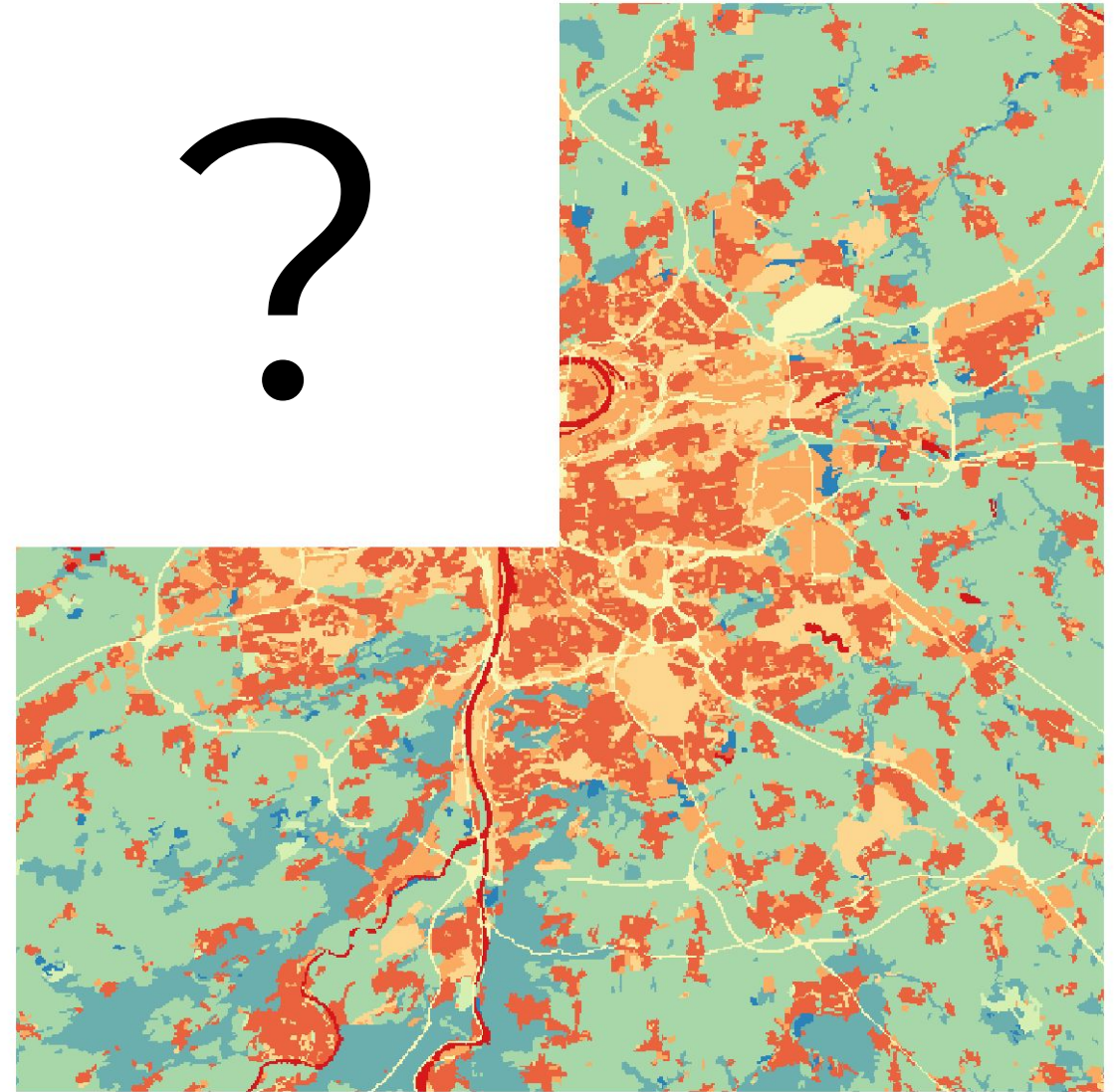
# ODSE Informal Deep learning Challenge



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## The challenge

1. Train a model
2. Compute the target tile that's missing from the package (**t2**)
3. Submit your results
4. Profit: winner gets a couple of local treats from across Europe



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## The legend

The full legend will be used for the contest (lvl3, nine classes):

```
In [1]: from odse_d1 import legend
```

```
In [2]: legend.level3
```

```
Out[2]:
```

```
{0: 'Water',  
 1: 'Urban fabric',  
 2: 'Non-housing builtup',  
 3: 'Urban green areas',  
 4: 'Infrastructure',  
 5: 'Unsorted artificial',  
 6: 'Agriculture',  
 7: 'Forest',  
 8: 'Non-forest vegetation'}
```

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## How to participate

You can register and subsequently submit your contest entries using the `odse_dl.contest` module. You can submit either by specifying a path to a raster file or by supplying a 512x512 NumPy array directly. The code below is all that is needed to participate:

```
In [1]: from odse_dl import contest # import the submodule
```

```
In [2]: token = contest.register("name") # choose a name and register
```

Thanks for participating, name!

Credentials saved to `/home/name/working/directory/odse2022_contest_credentials.json`

Your token is

`eHlDAAxTnM0hDXUMuXVzh1r14rD2ewx701CJ6E2ZLaYBydtrAJp3Xa27Lc4g_IY2Pxmpby2fNVDWDDvoXdHeVw`

```
In [3]: contest.submit(results) # submit data
```

class	precision	recall	f1-score
0	1	1	1
.	.	.	.
.	.	.	.
.	.	.	.
8	1	1	1
accuracy	1	1	1
macro avg	1	1	1
weighted avg	1	1	1

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Additional information and documentation

- entries will be ranked by weighted `f1_score`
- you can submit as many times as you want (but once every 5 minutes)
- deadline is 4pm, Thursday (16. 6. 2022)
- full `odse_dl` package documentation:
  - [https://gitlab.com/geoharmonizer\\_inea/odse-workshop-2022/-/blob/main/python\\_training/packages/odse\\_dl/README.md](https://gitlab.com/geoharmonizer_inea/odse-workshop-2022/-/blob/main/python_training/packages/odse_dl/README.md)
  - we strongly recommend you read the contest section of the README
- for questions and issues join the Mattermost channel:
  - <https://mattermost.opengeohub.org/opendatascience/channels/deep-learning-contest>
- scoreboard:
  - <https://kepler.multione.hr/odse2022/scoreboard>
  - `contest.scoreboard()`

Good luck and happy mapping!