Open Data Science

WORKSHOP

13. - 16. June 2022

Prague, Czech Republic

Co-financed by the Connecting Europe
Facility of the European Union

CTU
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mundialis

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ODSE Informal Deep learning Challenge

ODSE Informal Deep Learning Challenge

The legend

```
In [1]: from odse_dl 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'}
```
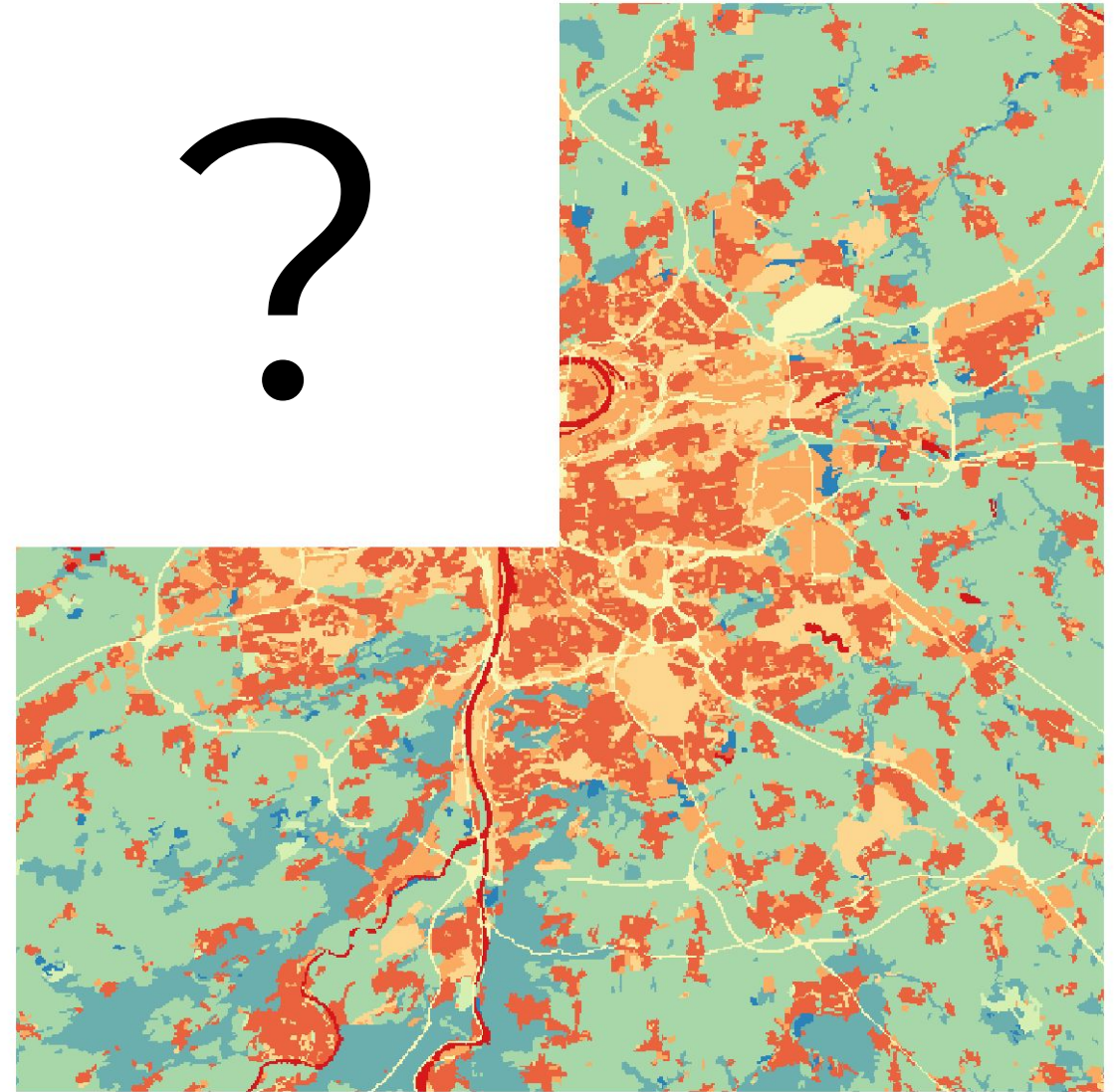
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The challenge

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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How to participate

```
In [11]: from odse_dl import contest

In [12]: token = contest.register("name")
Thanks for participating, name!
Credentials saved to /home/name/working/directory/odse2022_contest_credentials.json
Your token is
eHlDAAxTnM0hDXUMuXVzh1rl4rD2ewx7O1CJ6E2ZLaYBydtrAJp3Xa27Lc4g_IY2Pxmpby2fNVDWDDvoXdHeVw

In [13]: contest.submit(results)
class              precision     recall     f1-score
-----------        ----------    -------     ----------
0                          1          1            1
1                          1          1            1
2                          1          1            1
3                          1          1            1
4                          1          1            1
5                          1          1            1
6                          1          1            1
7                          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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How to participate

- entries will be ranked by weighted `f1_score`

- full `odse_dl` package documentation:
  - https://gitlab.com/geoharmonizer_inea/odse-workshop-2022/-/blob/main/python_training/packages/odse_dl/README.md

- 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.scoreboad()`

Good luck and happy mapping!