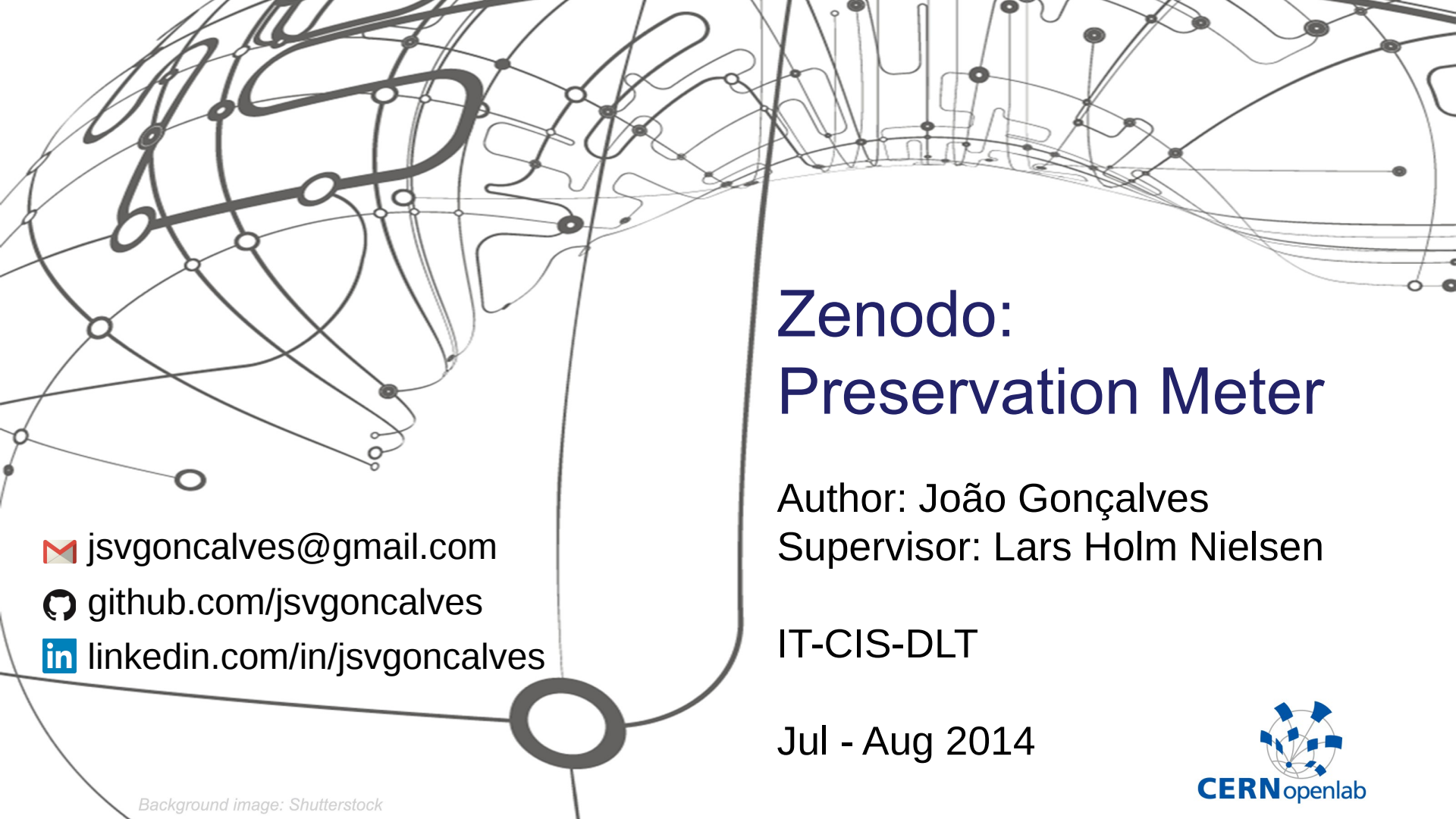

Zenodo: Preservation Meter

Author: João Gonçalves
Supervisor: Lars Holm Nielsen

IT-CIS-DLT

Jul - Aug 2014

jsvgoncalves@gmail.com
github.com/jsvgoncalves
linkedin.com/in/jsvgoncalves

CERN openlab

Background image: Shutterstock

Context

- **Digital Preservation**

- zenodo **An open digital repository for everyone and everything [http://zenodo.org]**

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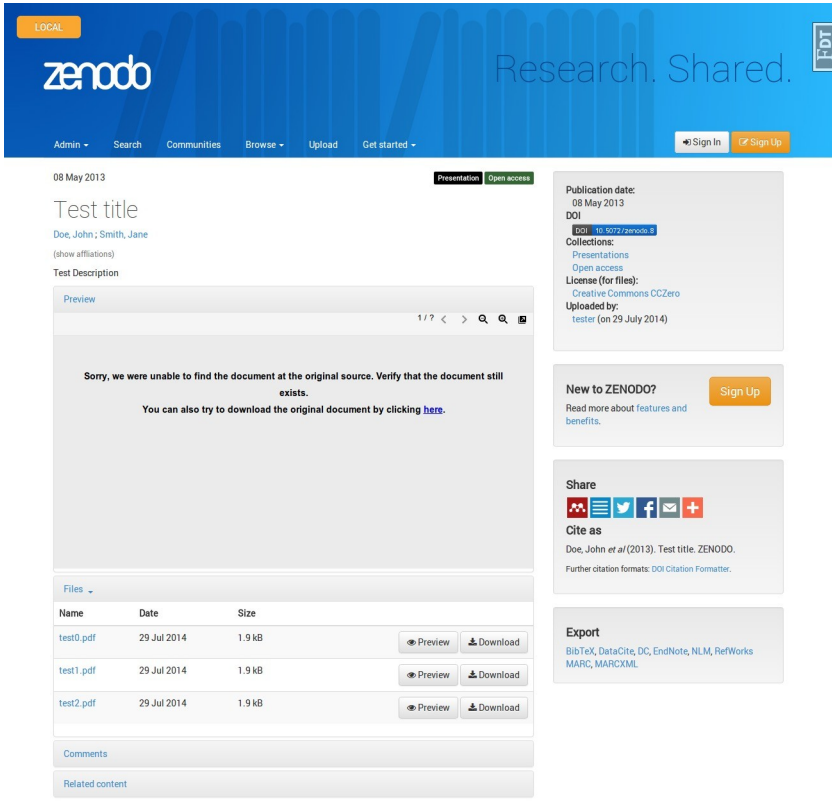
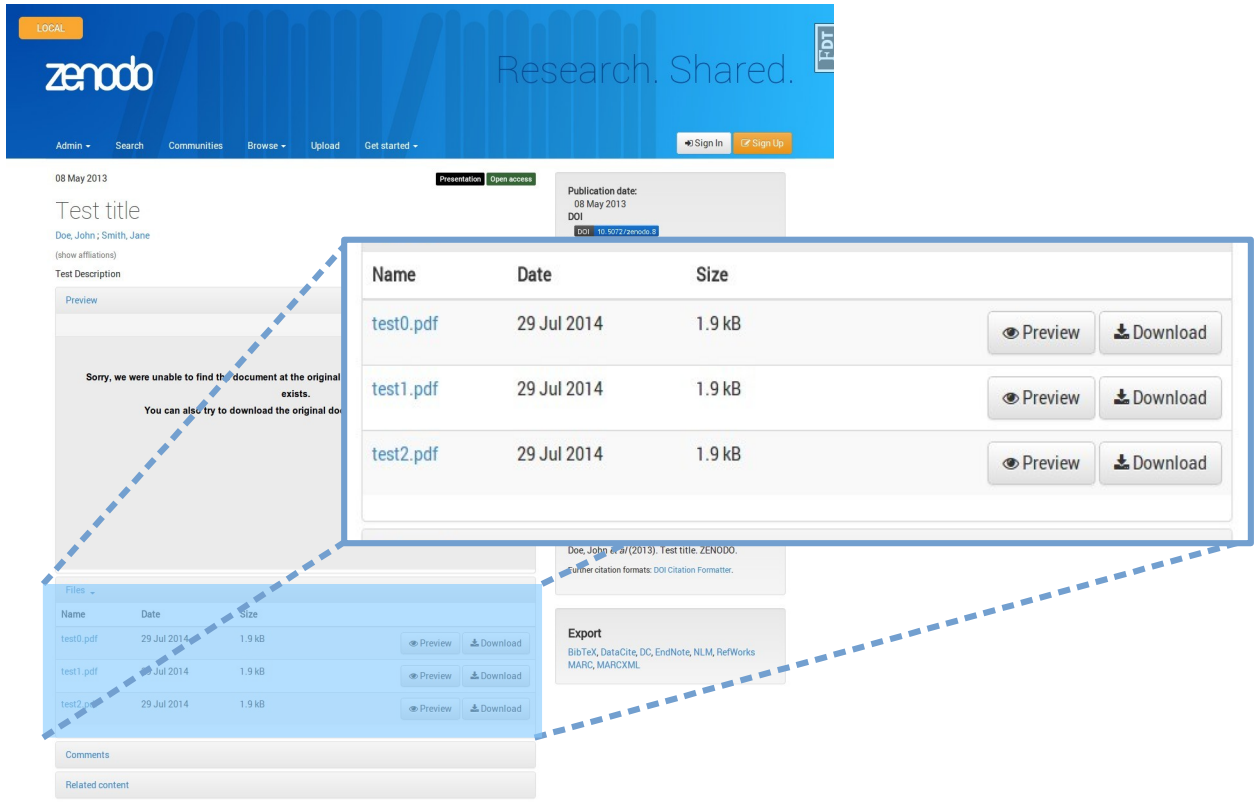
Problem



Background image: Shutterstock

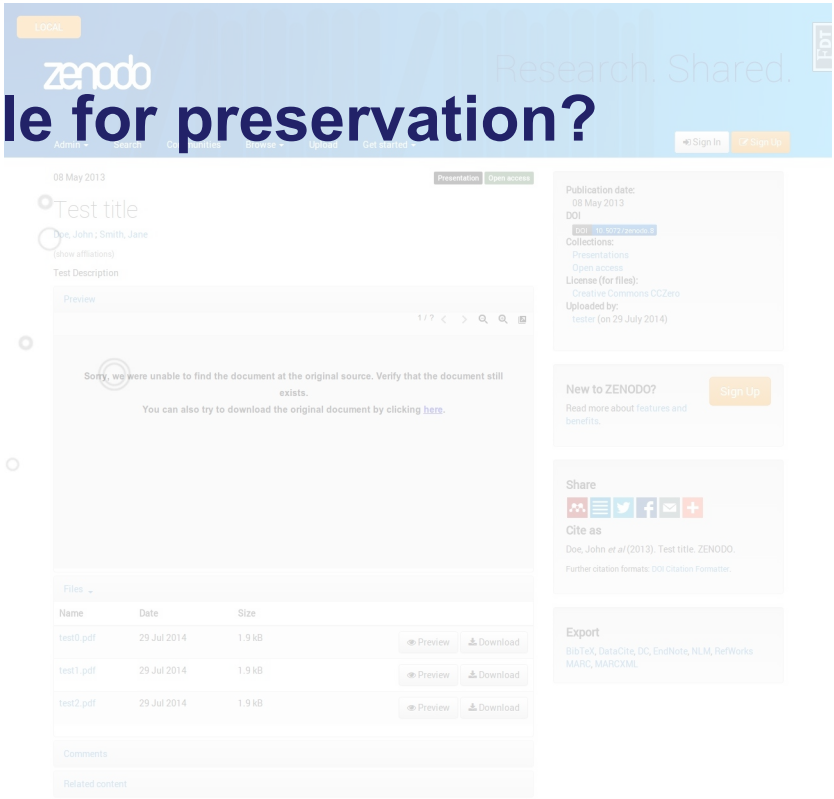
Problem



Background image: Shutterstock

Problem

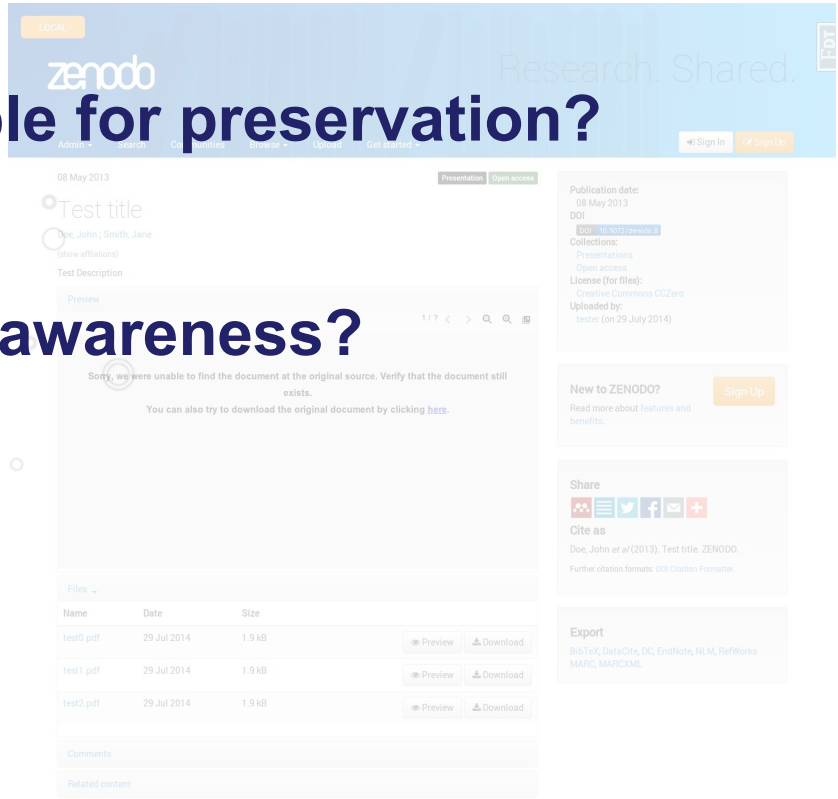
- Suitable for preservation?



Background image: Shutterstock

Problem

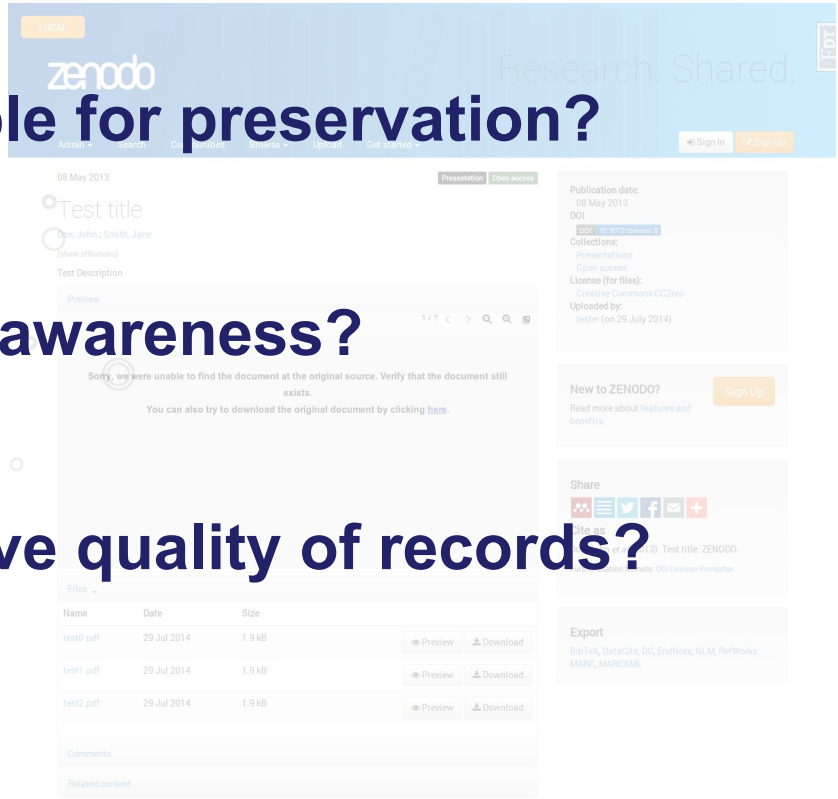
- Suitable for preservation?
- Raise awareness?



Background image: Shutterstock

Problem

- Suitable for preservation?
- Raise awareness?
- Improve quality of records?



Background image: Shutterstock

Objectives

- Add meter and badge to records to indicate the suitability of the documents for long-term preservation
- Define preservation guidelines and best practices
- Implement as an independent/plugable module to Zenodo
- Develop testing and validation

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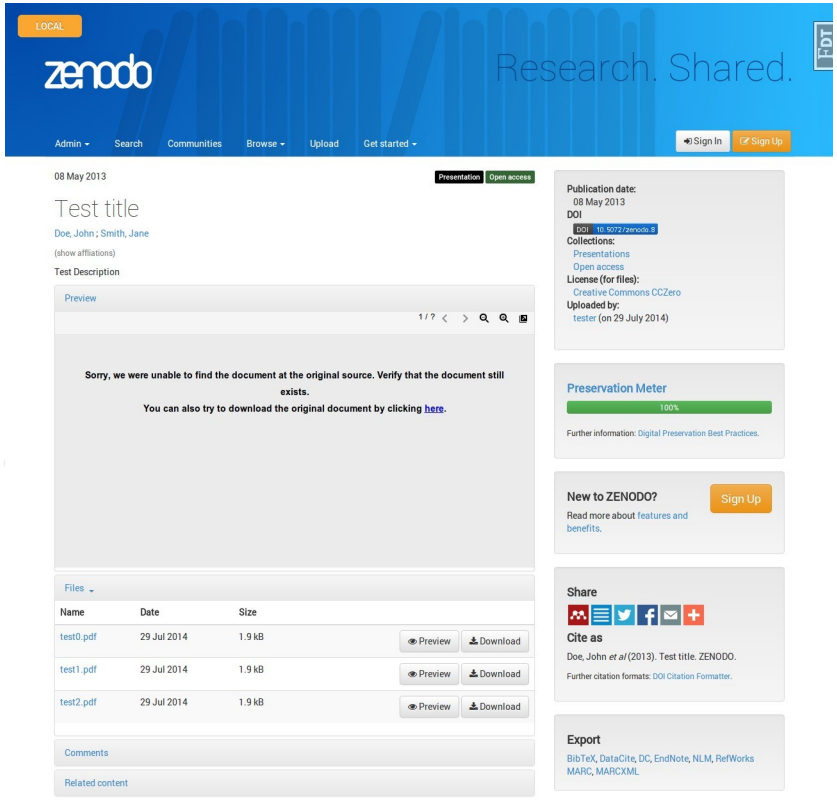
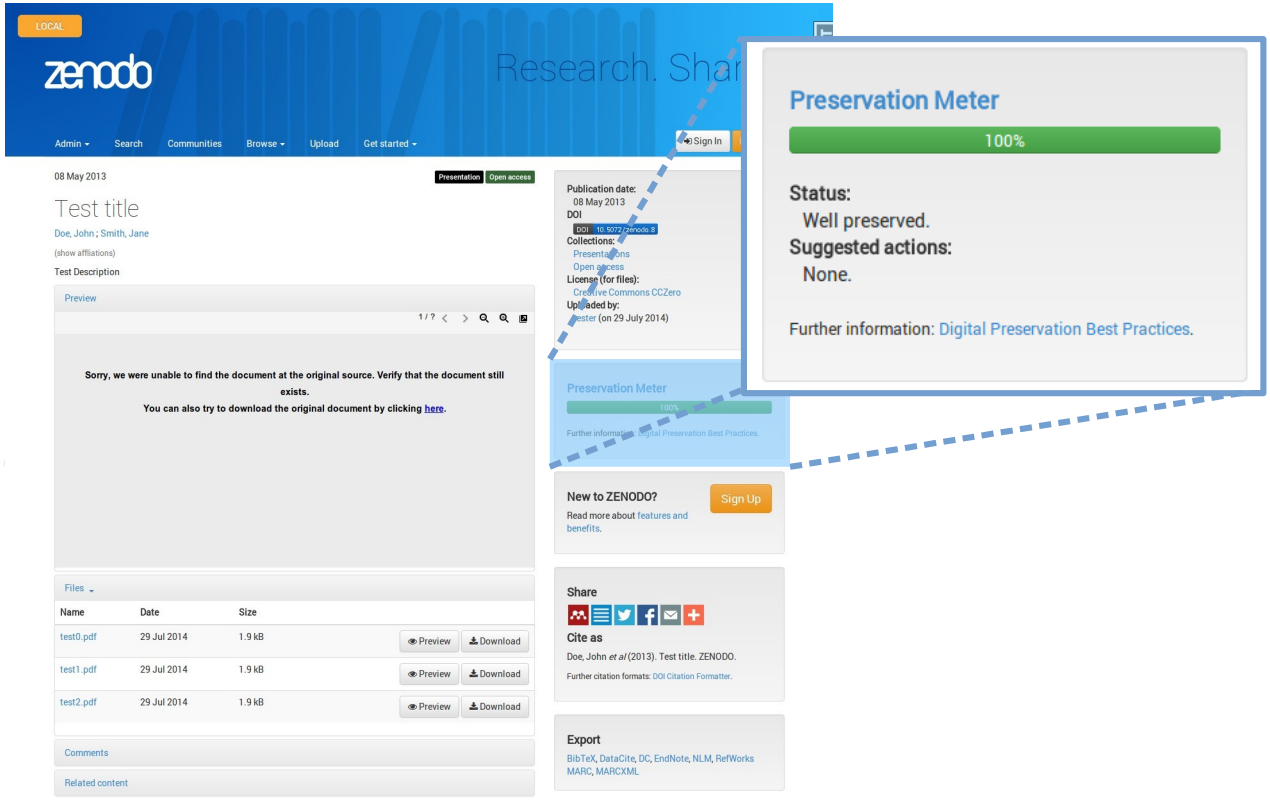
Preservation Meter



Background image: Shutterstock

Preservation Meter



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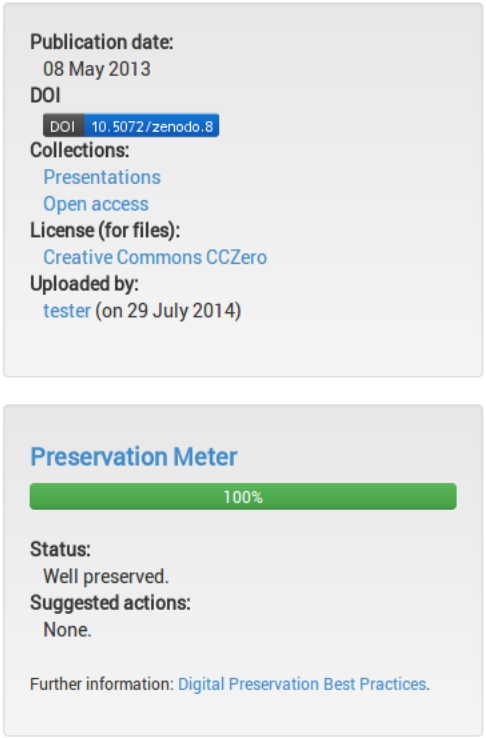
Preservation Meter

- **Score based approach**
  - mapping file

    type => quality score
  - proprietary vs open
- **Single file evaluation**
- **Multiple file evaluation**
  - avg([])
  - compressed formats (zip, tar..)



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Technology

Background image: Shutterstock

Conclusion

- **Main objectives accomplished**
  - **And tested :-)**

```
..-.Name                                                Stmts   Miss  Cover   Missing
-------------------------------------------------------------------------------------
zenodo.modules.preservationmeter                            0      0   100%
zenodo.modules.preservationmeter.api                      118      0   100%
zenodo.modules.preservationmeter.config                     0      0   100%
zenodo.modules.preservationmeter.views                      3      0   100%
-------------------------------------------------------------------------------------
TOTAL                                                     121      0   100%


-------------------------------------------------------------------------------------
13 tests run in 6.7 seconds.
1 skipped (12 tests passed)
```


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Conclusion

- Main objectives accomplished
- Future work:
  - Provide more details about the score
  - Provide feedback even before the record is uploaded
  - Improve evaluation methods
  - Add gamification techniques (?)

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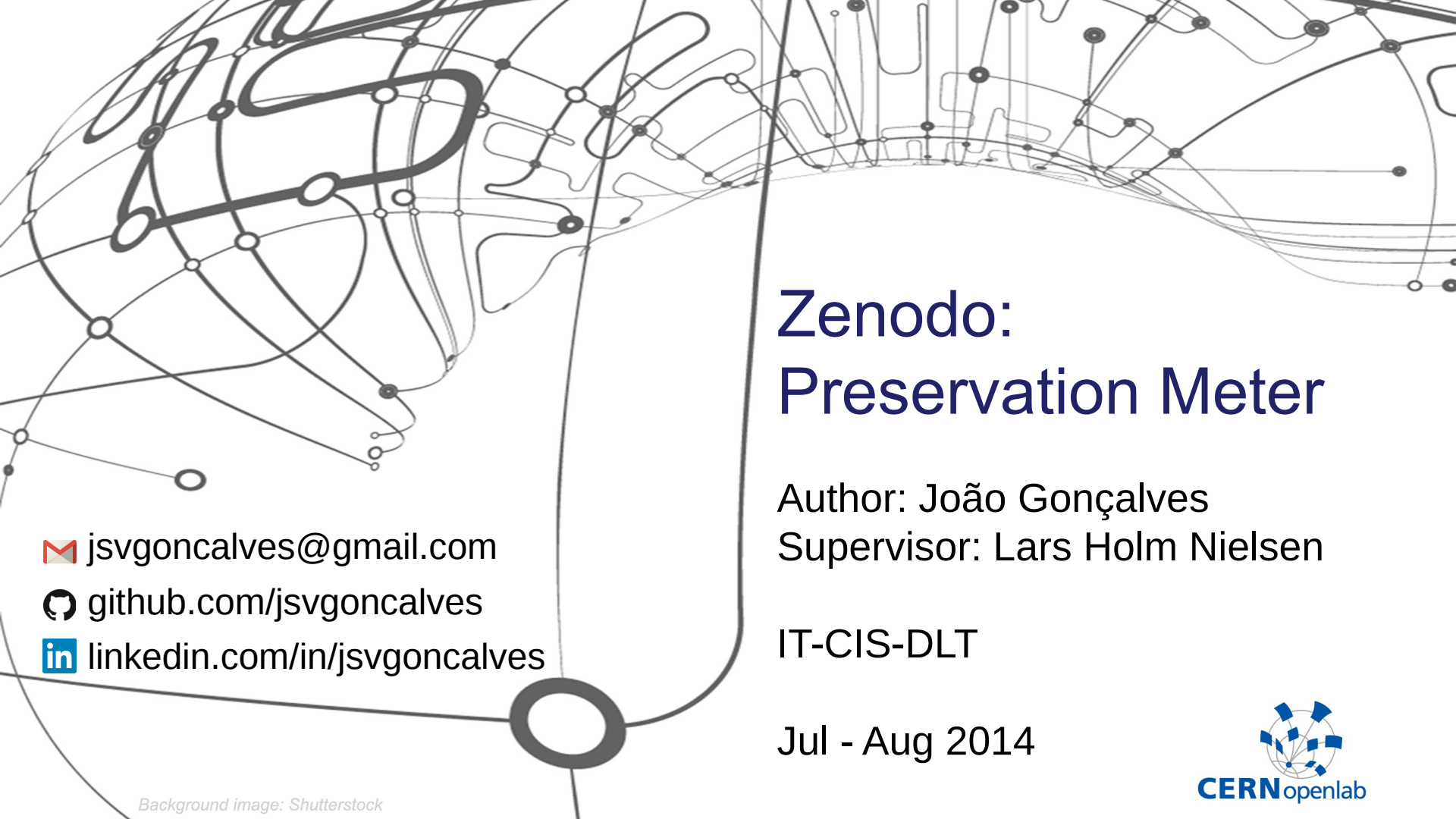

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