LISBON SCHOOL OF ECONOMICS & MANAGEMENT

UNIVERSIDADE DE LISBOA

Free and Open Source Software

& Much More!

Prof. Doutor **Carlos J. Costa**

2018

1

Index

- The Code Source
- Intellectual Property
- Copyleft
- Free Software and FSF
- Open Source and OSI
- Open Source vs. Free Software
- Free and Open Source Software Research
- Creative commons
- Open data

Carlos J. Costa (ISEG) - 2018   2

2

The Code Source

3

Intellectual Property

- Industrial property: Patents

4

Intellectual Property

- Industrial property: Trade Marks

5

Intellectual Property

- Copyright

6

Copyleft

- Copyleft is a general method of making software free and enforcing that all its modified and extended versions are also free.
- Copyleft says that anyone who distributes the software, with or without modifications, must give third parties the freedom to copy and modify the software again.

7

Free Software

0. RUN　1. STUDY
3. SHARE　4. IMPROVE

- The **freedom to run** the program as you wish, for any purpose (freedom 0).

- The **freedom to study** how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.

- The **freedom to redistribute** copies so you can help others (freedom 2).

- The freedom to distribute copies of **your modified** versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

8

4

Free Software Foundation

- The Free Software Foundation (FSF) is a non-profit with a worldwide mission to promote computer user freedom.
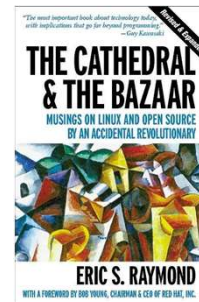- Richard Stallman
- Founded: 1985
- https://www.fsf.org

Carlos J. Costa (ISEG) - 2018   9

9

Free Software

Carlos J. Costa (ISEG) - 2018   10

10

Open Source

- More "realistic" approach
- open source software is better than proprietary software.
- Collaborative development:
  – Software engineering tools
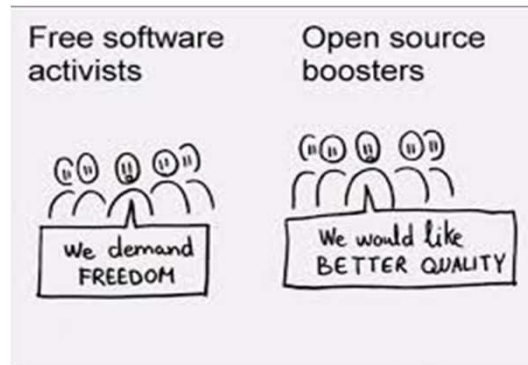 – Business model

11

Open Source Initiative

- Non-profit
- Founded 1998
- https://opensource.org/
- OSI was jointly founded by Eric Raymond and Bruce Perens in late February 1998, with Raymond as its first president, Perens as vice-president, and an initial Board of Directors including Brian Behlendorf, Ian Murdock, Russ Nelson, and Chip Salzenberg.

12

Open Source vs. Free Software

- Stallman, 2016

13

Free and Open Source Software

- Law - Licences

14

Free and Open Source Software
Law - Licences

	GPL	LGPL	MPL	Apache	BSD-3	MIT
Use	x	x	x	x	x	x
Modification	x	x	x	x	x	x
Distribution	x	x	x	x	x	x
Provide source code in distribution	x	x	x			
Show license on distribution	x	x	x	x	x	x
Identify changes in distribution	x	x	x	x		
Modifications in the same work with the same license (weak copyleft) in the distribution	x	x	x			
Derivatives must have the same license (strong copyleft) in the distribution	x	x				
Prohibited to disclose trademark of the original entity without prior authorization				x	x	

Carlos J. Costa (ISEG) - 2018   15

15

Free and Open Source Software

- Law – Licences
  - http://choosealicense.com/
  - https://www.gnu.org/licenses/license-list.html
  - https://tldrlegal.com/
  - https://opensource.org/licenses/

Carlos J. Costa (ISEG) - 2018   16
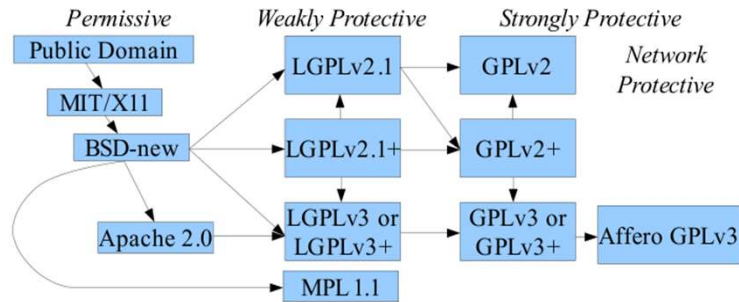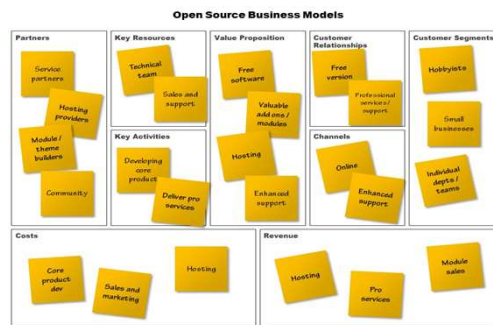
16

Free and Open Source Software

Law – Licences

17

Free and Open Source Software

• Management: New Business Models

18

Free and Open Source Software

- Software Engineering

19

Free and Open Source Software

- Informatics and End Using

20

Free and Open Source Software

- Economics and Social Approaches

21

Free and Open Source Software

- Motivations

Love   Money   Glory

22

Creative Commons

https://creativecommons.org/license/

Carlos J. Costa (ISEG) - 2018   23

23

Open Access

Carlos J. Costa (ISEG) - 2018   24
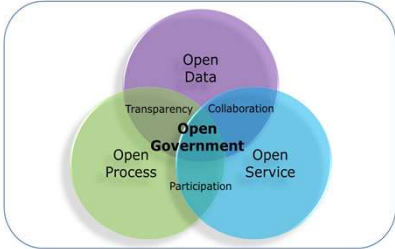
24

Open Access

25

Open Data

https://www.pordata.pt/
https://dados.gov.pt/pt/
https://data.europa.eu/euodp/en/home
https://data.europa.eu/euodp/en/data/group
https://www.europeandataportal.eu/
http://lisboaaberta.cm-lisboa.pt/index.php/pt/

26

Open

27

References

Bibliography

Chesbrough, H. (2013). Open business models: How to thrive in the new innovation landscape. Harvard Business Press.

Kavanagh, P. (2004). Open source software: implementation and management. Digital Press.

Open Source Initiative. (2006). Open source licenses.

Raymond, E. (1999). The cathedral and the bazaar. Knowledge, Technology & Policy, 12(3), 23-49.

Stallman, R. (2003). Free software foundation (fsf).

Tapscott, D., & Williams, A. D. (2008). Wikinomics: How mass collaboration changes everything. Penguin.

Tapscott, D. (2010). Macrowikinomics. Penguin Canada

Webgraphy

http://www.oreilly.com/openbook/opensources/book/

http://choosealicense.com/

https://www.gnu.org/licenses/license-list.html

https://tldrlegal.com/

https://opensource.org/licenses/

http://dcti.iscte.pt

28