

# eclipse *Time*

## Open Source components integration

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- ▶ How to choose an Open Source component

- ▶ How to integrate it in your developments
- ▶ How to be involved



# Open Source components integration

How to choose an Open Source component?

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- Best component
- Risk analysis
- Choice of a version



- License
  - ▶ Different licenses for different cases
  - ▶ What is the targeted business model?
  - ▶ Copyleft?
  - ▶ Compatible with GPL?

**Eclipse Public License**

**GPL**

**LGPL**

**Apache License**

**MIT**

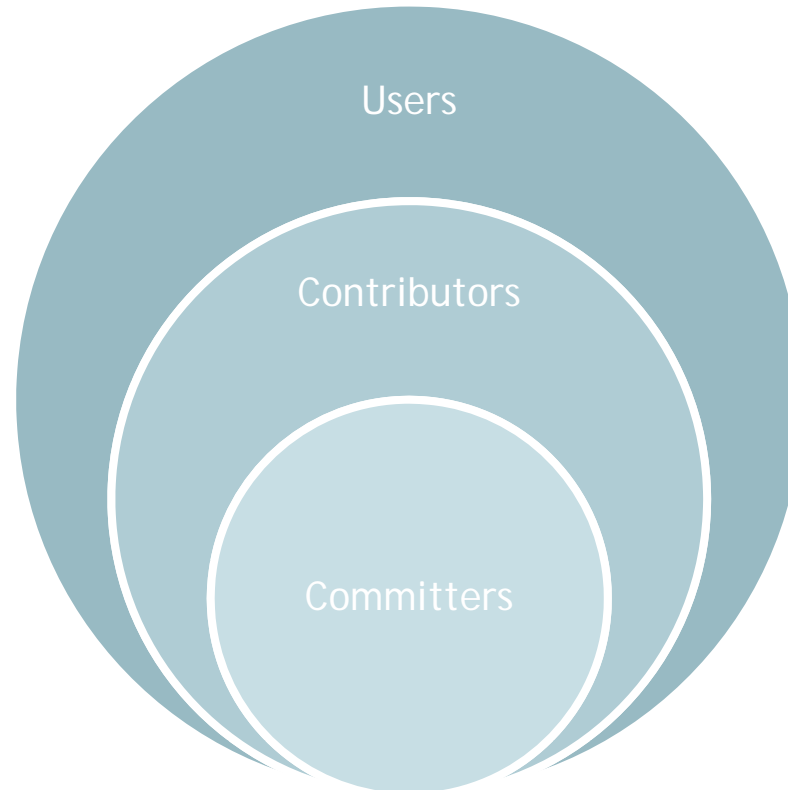
**Mozilla Public Licence**

**BSD**

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- Community



▶ How strong / vibrant is this community?



- Ecosystem

- ▶ Individuals

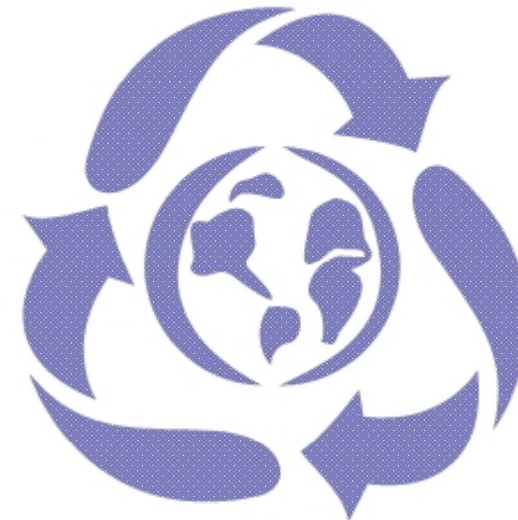
- ▶ Service providers

- ▶ Adopters

- Software vendors

- Industry

- ▶ Diversity == Strong ecosystem



- Maturity

- ▶ Quality, Development process
- ▶ Tests
- ▶ Bug tracker
- ▶ Success stories

- Predictability

- ▶ Roadmap
- ▶ Respect of the initial schedule
- ▶ Previous versions



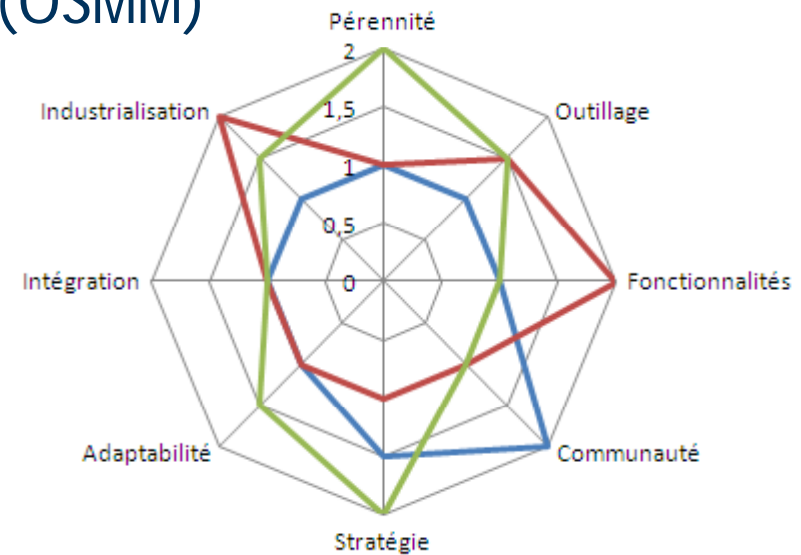
- Hosted by
  - ▶ Foundation
  - ▶ Forge
  - ▶ Independent



- Intellectual property



- QSOS
- OpenBRR
- Open Source Maturity Model (OSMM)
- ...



- FLOSSMetrics
- QSOS
- Ohloh
- ...

- The experience !



## Eclipse Mylyn

Updated 14 Jun 2009 01:04 UTC

GENERAL  
Summary  
Journal Entries  
Reviews  
Links  
News  
Managers  
Widgets

DEVELOPMENT  
**Code Analysis**  
Contributors  
Commits  
Enlistments

EDIT  
Permissions  
History

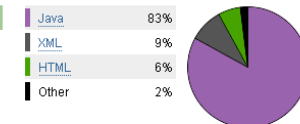
### Licenses

Ohloh searches the source code for individual license declarations. These licenses can differ from the project's official license.

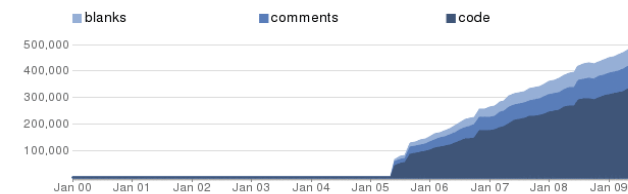
<a href="#">Eclipse Public License</a>	2670 files
<a href="#">GNU General Public License 2.0</a>	1 files
<a href="#">Apache Software License</a>	1 files
<a href="#">Apache License 2.0</a>	1 files

### Languages

Ohloh analyzes the project source code and determines the language of each line of code, excluding comments and blanks.



### Lines of Code



# Open Source components integration

Integrate components into your developments

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## Your roadmap



## The component's roadmap

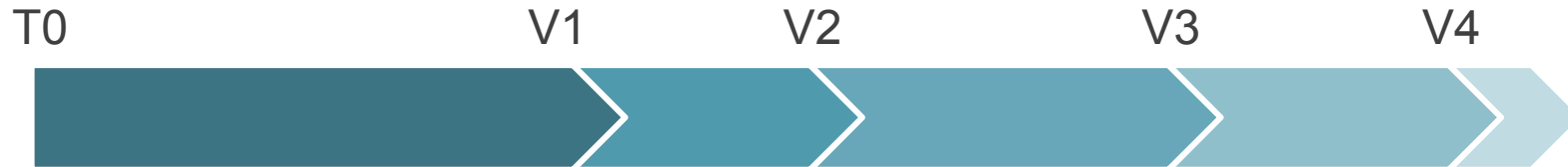


- 3 approaches



Your roadmap

User



The component's roadmap

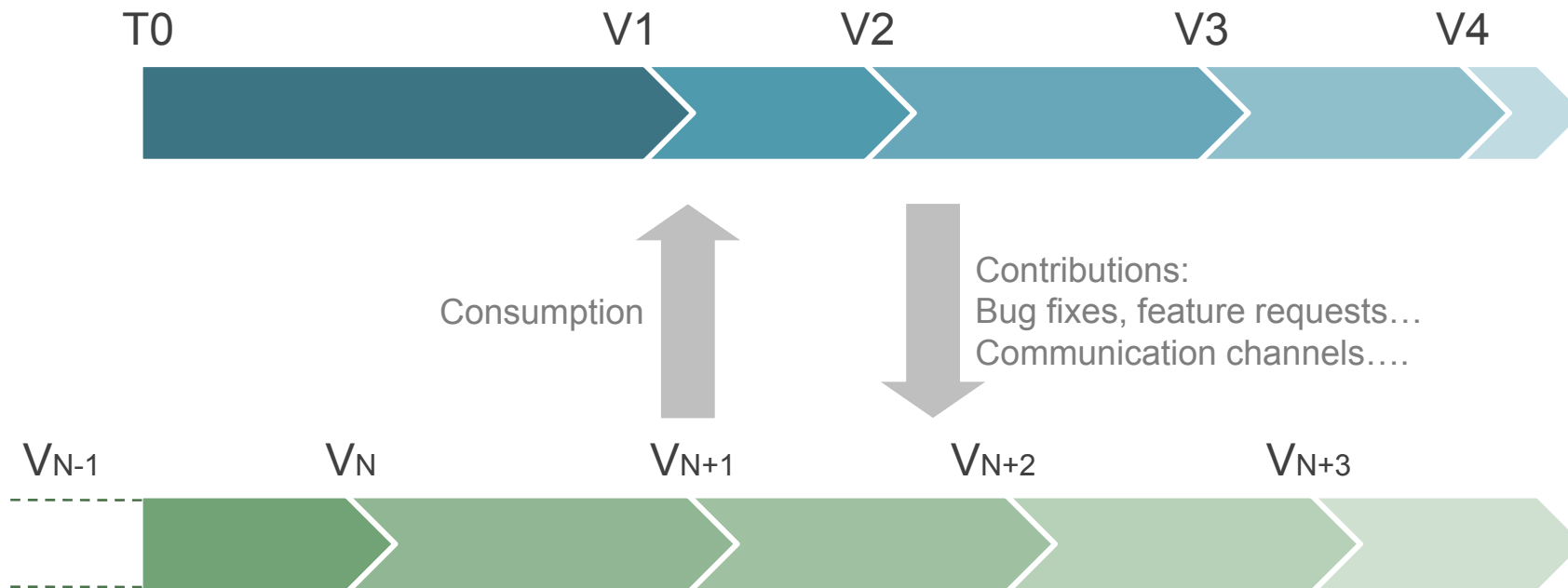


- Consume frozen version of components
- Implement work around for bugs
- Advantages
  - ▶ Safe
  - ▶ Predictable
  - ▶ Independent



Your roadmap

## Contributor



The component's roadmap



# Active approach Contributor

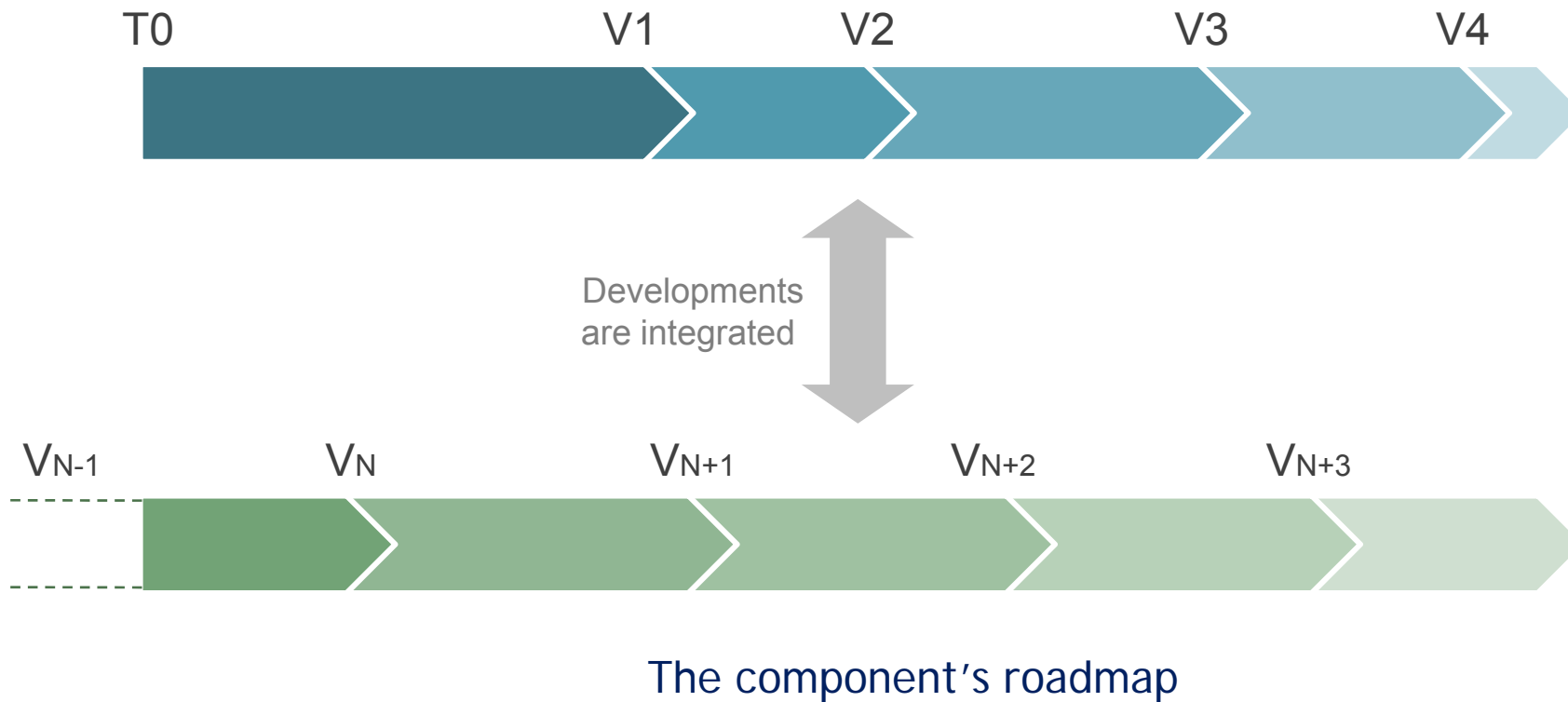
- Consume frozen version of components
- Suggest bugs and new features
- Integrate new version in the following iterations if it includes fixes
- Advantages
  - ▶ New features / fixes can be integrated in N+1
  - ▶ Shared effort on fixes



# Integrated approach

Your roadmap

Committer



## Committer

- Integrate your roadmap and the component roadmap
- Develop on top of development branches
- Add new features to the component
  
- Advantages
  - ▶ Influence the component roadmap
  - ▶ Integrate soon
  - ▶ Do not maintain work around or fork of the component



# Open Source components integration

Be involved!

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# Why be involved ?

- Be able to influence/change the component roadmap
- Integrate your constraints
- Expertise image
- Create a more mature component



# How to be involved ?

- Promote the software you use
- Suggest new features
- Test release candidates and report bugs
- Submit documentation improvements
- Participate in support channels
- Write code and fix bugs



# Open Source components integration

Conclusion

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- Open Source components are now often used
  - ▶ *“85% of companies are already using open-source software, with most of the remaining 15% expecting to do so within the next year .” - Gartner Research, Nov. 2008*
  - ▶ But it must be carefully integrated into your developments
  
- The next step is to be involved!
  - ▶ Switch from the consumer mode to the actor mode





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Linking Innovation to your Business

# Questions?

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