



European
Processor
Initiative

THE GOOD
THE BAD
THE UGLY

MPSoC'25

OPEN SOURCE

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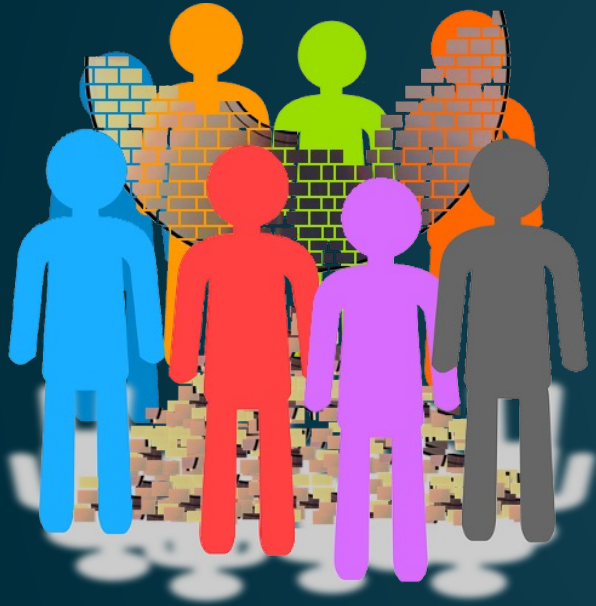
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Blame me only

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What's Open Source?



Decentralized development model
encouraging open collaboration



universal access and
redistribution via a license

Community first

It's not dropping a source code in GitHub
and expecting someone to contribute!

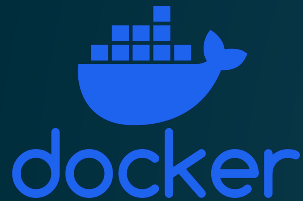
Open Source paves digital infrastructures



Orchestrating
containers



Revolutionizing
Version Control



Simplifying
deployment



Enabling Large-Scale
Data Processing



Backbone
of the Web



Facilitating
Data Science



Foundation of
modern computing



Democratizing
Machine Learning

A vendor lock-in disabler



- HW/SW disaggregation
- SW influences HW selection
- Simplified nodes facilitating load balancing

Belongs to high commodity HW volumes

Open Source is a business

\$13 B

Estimated market size for open-source services by 2026

\$5 B

Venture capital investment in open-source startups in 2023

96%

Codebases containing open-source components

A fast path to enter in several businesses

Speed

Developing from scratch is a long and costly challenge

Ease

Full solutions are complex to create by yourself

Savings

Numerous “must have” your customers are not valuing

The jungle of infinite licensing models

Free Lunch

Do whatever
you want

Distribution

Can you distribute
your binaries to
your customers?

IP

Do you keep your
IP ownership?

Contamination

Conditions forcing
you to disclose
your source code

Open Source / Free Software is not meaning Free of charge

Quality

- Numerous out of your control contributions
- Source code beauty versus pragmatism
- Backward compatibility
- Quality assurance

Support

- Community commitments
- Backport of bug fixing on your customer versions

Intimacy

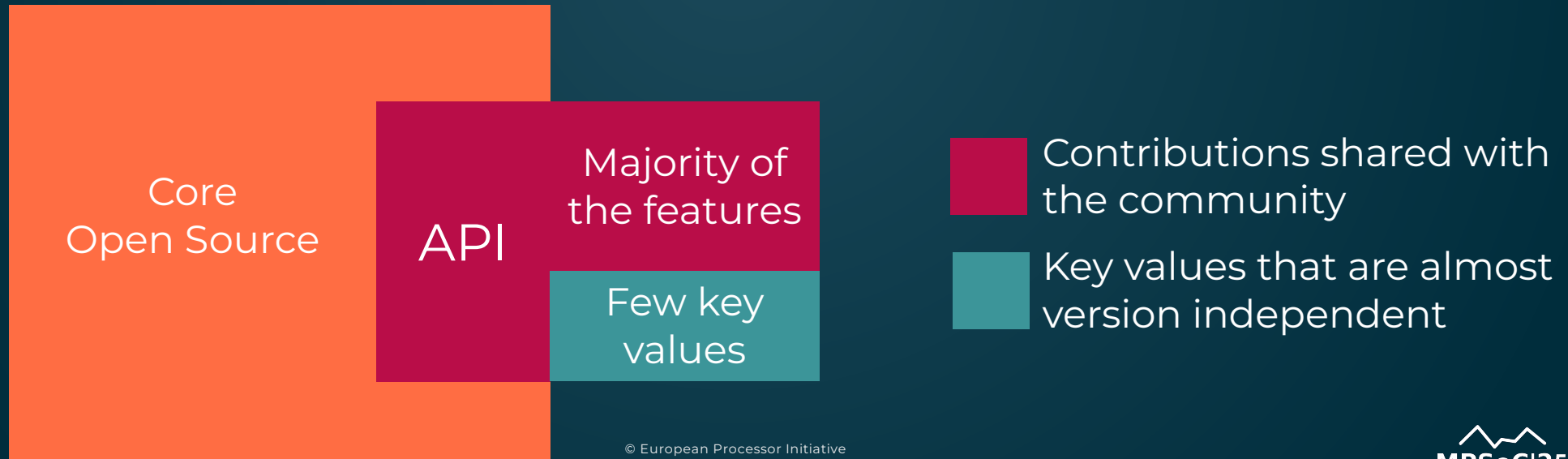
- Contribute to extract the juice
- Influence from recognized individuals
- Know how to setup so many configuration parameters

Playing the game sharing your contributions

Don't keep your enhancements or your bug fixing for yourself

It's a huge effort to reintegrate them in the next versions

Example of trade-off



Open Source is IP ownership compatible

IP
Safe

Keep your IP rights and patenting ability

Preserve
code
access

Your contributions are preventing to close the source code

Patenting

Save patenting costs relying on license terms and conditions

To Open Source (SW) to Open Hardware



- Expense driven
- 0 defect development process



- Passionate people driven
- Incremental development process

What's about your business?






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