cyclopt

Your software,
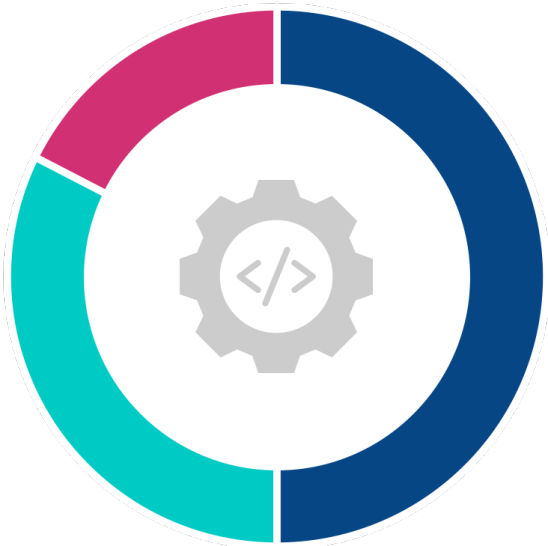## Our priority.

PAINPOINT

The Software Engineering Lifecycle is **challenging** and **complex,** thus Software projects become **difficult to manage** under a **certain timeline** and **budget.**

50 % of software projects are **challenged** (deviations in schedule and/or cost)

**19** % of software projects **fail completely**

31 % of software projects **are successful**

Source: Standish Group Chaos Report 2020

Adding more features and Reducing Time-To-Market **Increases Technical Debt** (overlooking Quality Control)

Increased Technical Debt means **More Development** and **Maintenance Costs.**

• According to CISQ Consortium for Information & Software Quality, only in the US were spent more than **500bn $/year in maintenance costs due to poor quality**

• **SaaS ecosystem has value more than 150bn $**

Budget (€)

Project Completion (%)
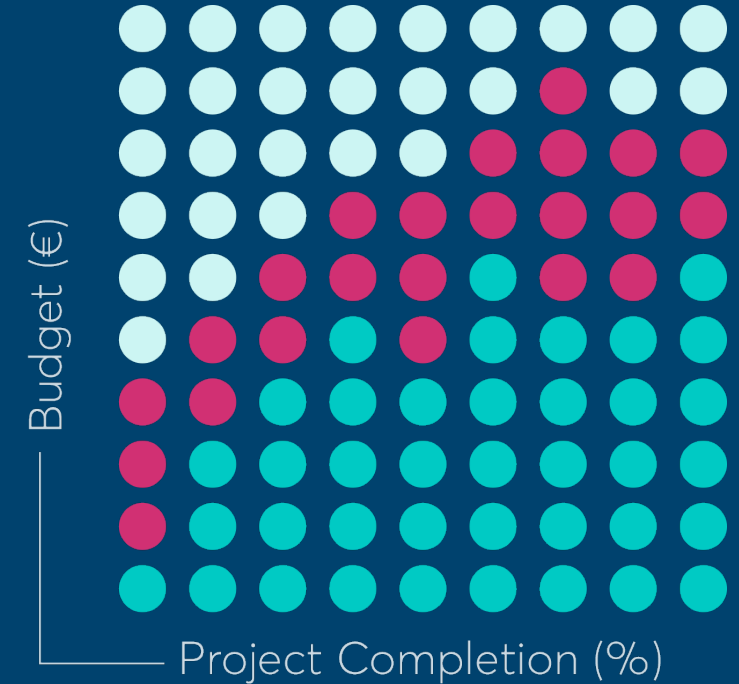
● **Plan**   ● **Reality**

The bitter truth in Software Development is that…
"expectation is pretty far away from reality, ending up in severe Plan and Budget deviations"

OUR SOLUTION

We Offer An AI-Driven Cloud Platform for
Effective Management of the Software Engineering Lifecycle
- *for DEV individuals/Teams/Units/SW consortiums*
- *for Developing SW the optimal way*
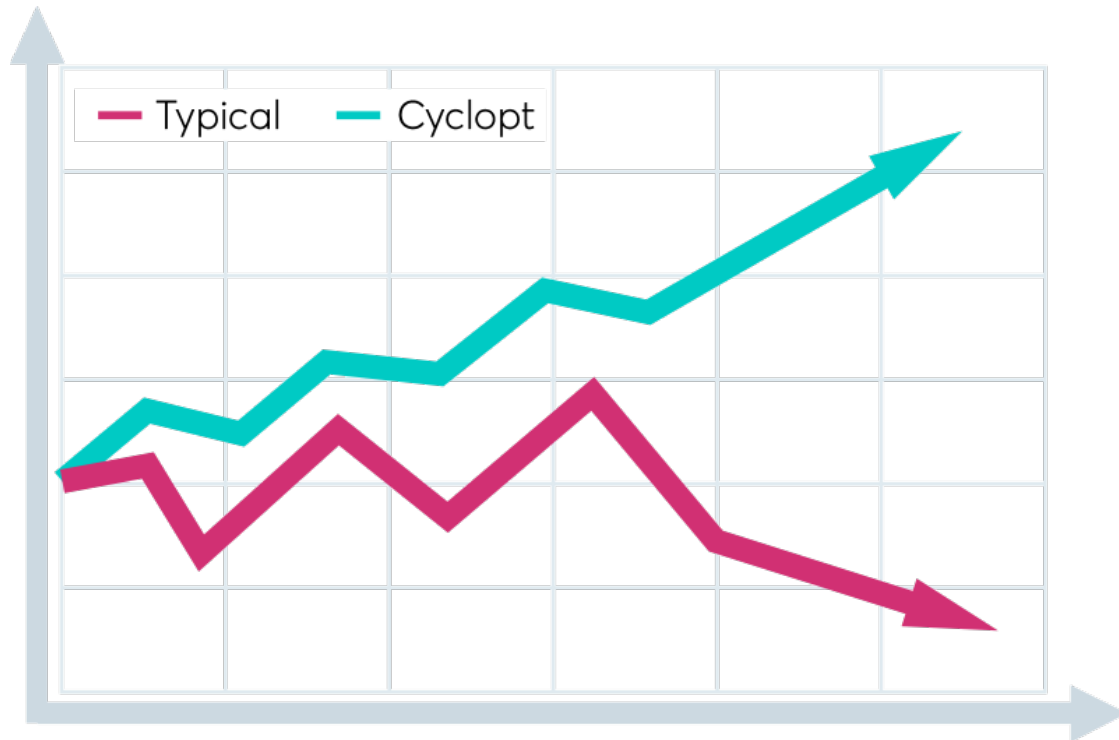
— Typical   — Cyclopt

Minimize Software **Development**
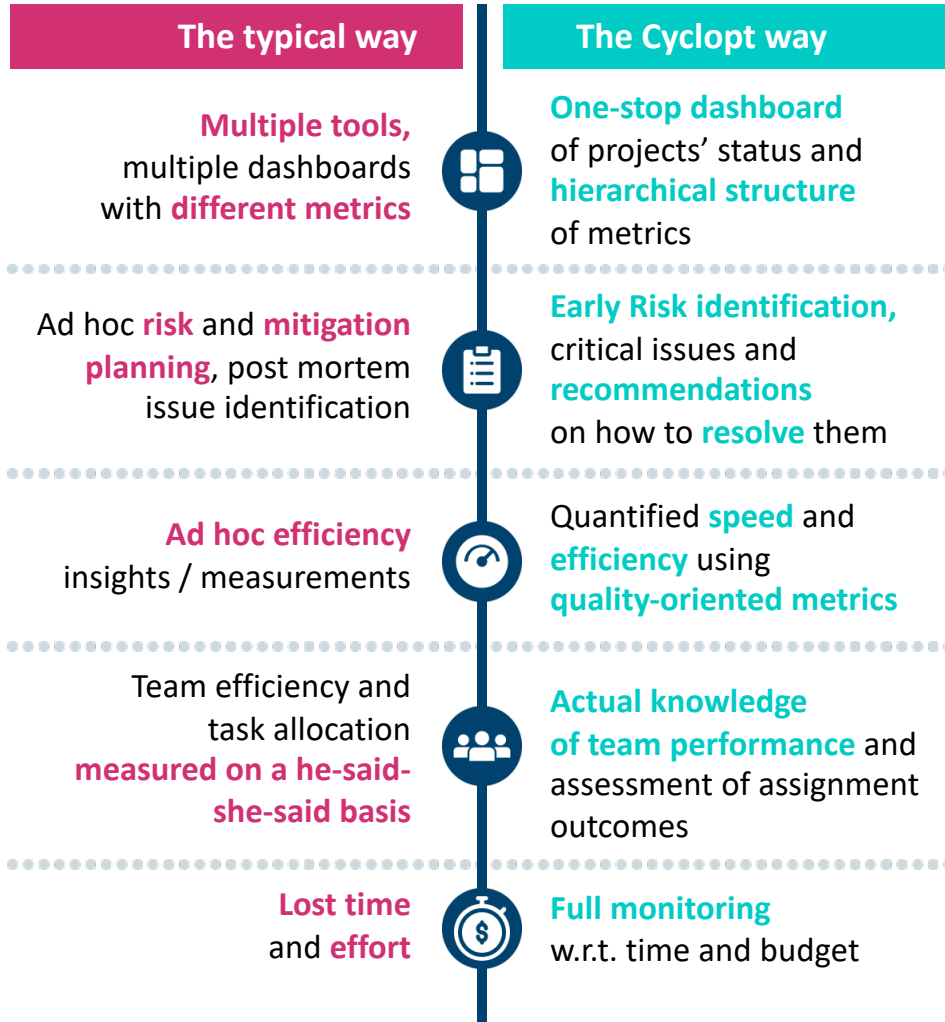and **Maintenance Costs**

TYPICAL PROBLEMS

❌ **Project deviates** from original plan

❌ **Quality** aspects are **inevitably neglected**

❌ Valuable time and **money are lost**

CYCLOPT OFFERINGS

✅ **Continuous** Code Quality **Monitoring**

✅ Early **Risk Identification**

✅ **Data-Driven Recommendations** based on Lifecycle Analytics

✅ **Effective** Project and **Team Management**

✅ **Facilitate new members** on-boarding

HOW IT SHOULD BE
METHODOLOGY – The Right Way

The typical way	The Cyclopt way
Multiple tools, multiple dashboards with **different metrics**	**One-stop dashboard** of projects' status and **hierarchical structure** of metrics
Ad hoc **risk** and **mitigation planning**, post mortem issue identification	**Early Risk identification,** critical issues and **recommendations** on how to **resolve** them
Ad hoc efficiency insights / measurements	Quantified **speed** and **efficiency** using **quality-oriented metrics**
Team efficiency and task allocation **measured on a he-said-she-said basis**	**Actual knowledge of team performance** and assessment of assignment outcomes
Lost time and **effort**	**Full monitoring** w.r.t. time and budget

Increase
your productivity
Measurable improvements on project efficiency and quality

Manage
remote teams effectively.
Know the team's skills and potential

Keep control
of your projects
Either developed in house or via outsourcing (collaboration)

GAIN

Deploy
in a Fast & Easy Manner
Main DevOps Integrations available

- **Integration of EngOps** with Software Quality

- **Agile project management** with workflow unchanged. Your model, your way, your insights!

- Every measurement is **evaluated against relative benchmark** datasets

- The **quality model adheres to ISO 25010** and is customer & domain - specific. One product is bound in performance, another in maintainability

- **Simultaneous Evaluation and Quality Analysis** of Source Code as produced

DIFFERENTIATION

PLATFORM TOOLS

Presents to the team **the knowledge they need** in-time and in-context

Code Quality Review & Fix
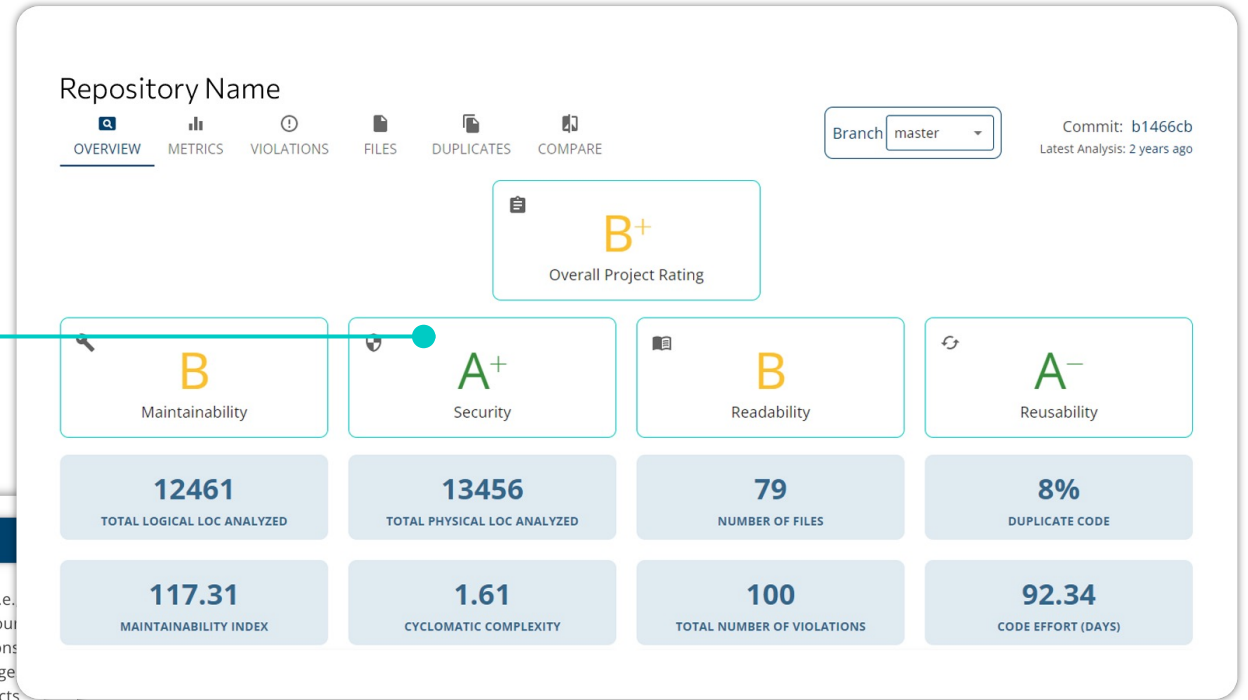
Project Monitoring

Team Management

cyclopt

PLATFORM FEATURES

CYCLOPT PLATFORM

- Data-driven **Quality Evaluation**

Evaluation of **ISO 25010** quality characteristics in a simple axis!

Repository Name

OVERVIEW | METRICS | VIOLATIONS | FILES | DUPLICATES | COMPARE

Branch master

Commit: b1466cb
Latest Analysis: 2 years ago

B+
Overall Project Rating

B	A+	B	A−
Maintainability	Security	Readability	Reusability

12461	13456	79	8%
TOTAL LOGICAL LOC ANALYZED	TOTAL PHYSICAL LOC ANALYZED	NUMBER OF FILES	DUPLICATE CODE

117.31	1.61	100	92.34
MAINTAINABILITY INDEX	CYCLOMATIC COMPLEXITY	TOTAL NUMBER OF VIOLATIONS	CODE EFFORT (DAYS)

Position Literals First In Comparisons

Position literals first in comparisons, if the second argument is null then NullPointerExceptions can be avoided, they will just return false

Possible fixes found 8 times in 2 files

⚠ Critical   BP Best Practices

If Else Stmts Must Use Braces

If Else Stmts Must Use Braces

Possible fixes found 14 times in 5 files

⚠ Minor   CS Code Style

Loose Coupling

The use of implementation types (i.e. HashSet) as object references limits your ability to use alternate implementations in the future as requirements change. Whenever available, referencing objects by their interface types (i.e, Set) provides much more flexibility

Possible fixes found 6 times in 4 files

⚠ Major   BP Best Practices

Suspicious Constant Field Name

Field names using all uppercase characters - Sun s Java naming conventions indicating constants - should be declared as final

Possible fixes found 2 times in 1 file

⚠ Minor   CS Code Style

Variable Naming Conventions

Final variables should be fully capitalized and non-final variables should not include underscores

Possible fixes found 2 times in 1 file

⚠ Minor   CS Code Style

If Stmts Must Use Braces

If Stmts Must Use Braces

Possible fixes found 5 times in 4 files

⚠ Minor   CS Code Style

Easily detect critical and major issues and get **recommendations** for fixing them!

CYCLOPT PLATFORM

- **Continuous** Quality Monitoring

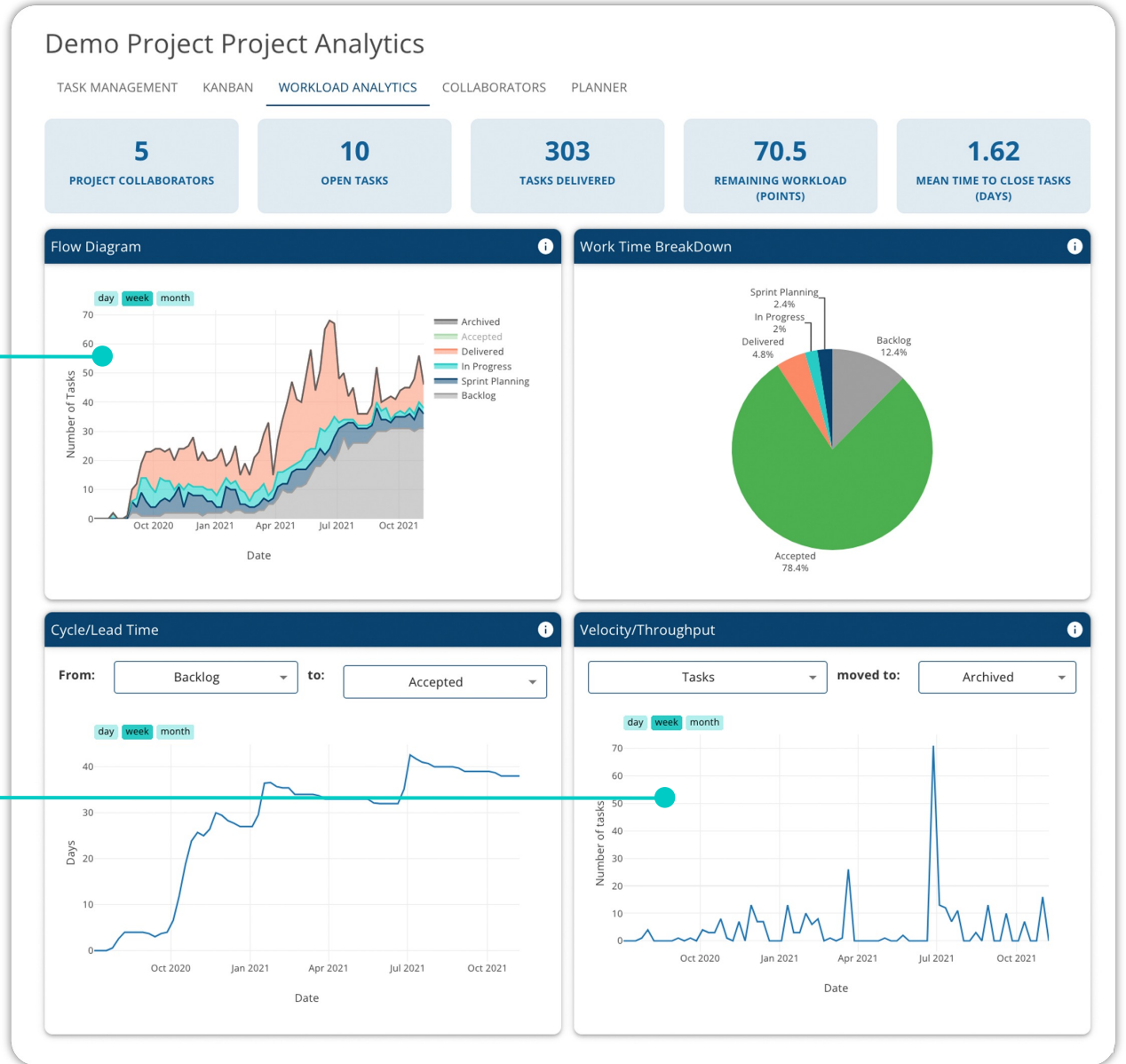**Compare** the quality characteristics across commits

Keep track of the quality progress of your project over time

CYCLOPT PLATFORM

- **Measure** Project Velocity

Find out what stages of your development are the most **critical time-wise**!
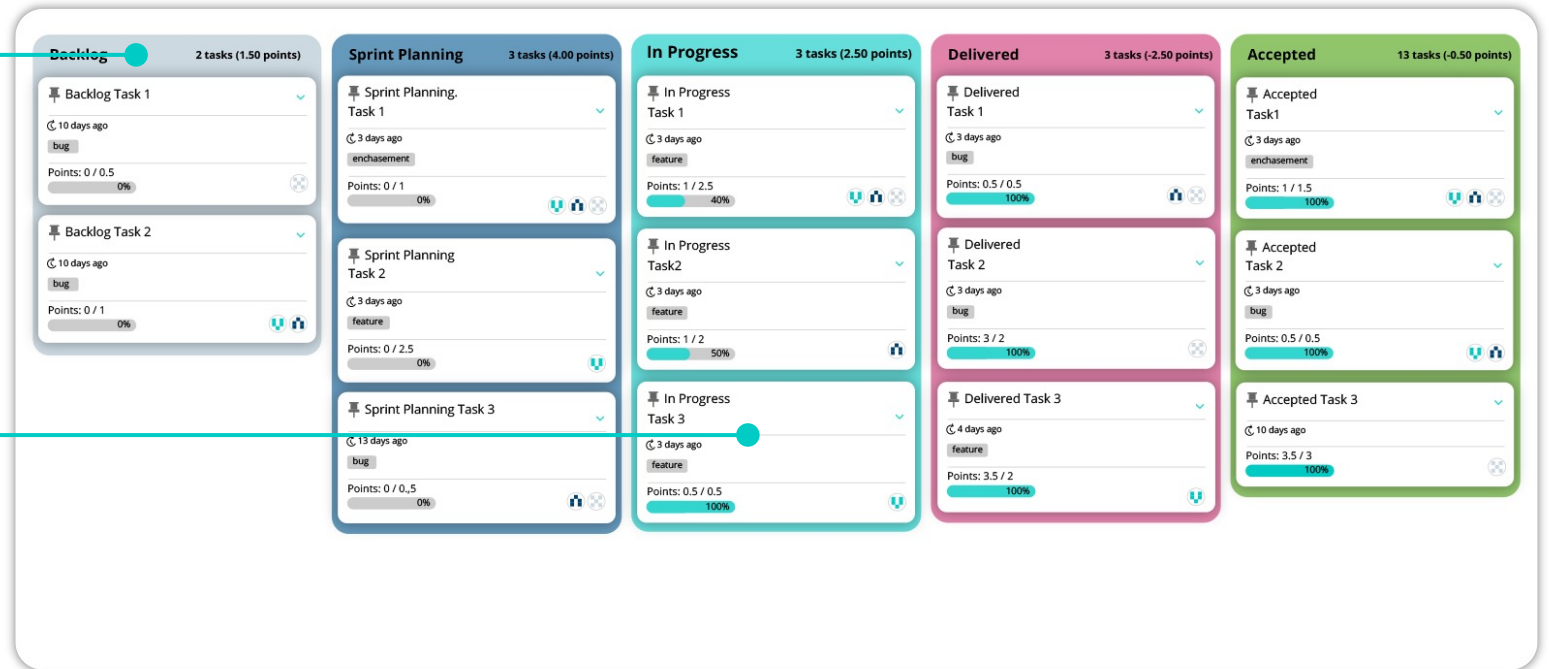
See the **progress** of your team's velocity in time!

CYCLOPT PLATFORM

- **Task management** made easy

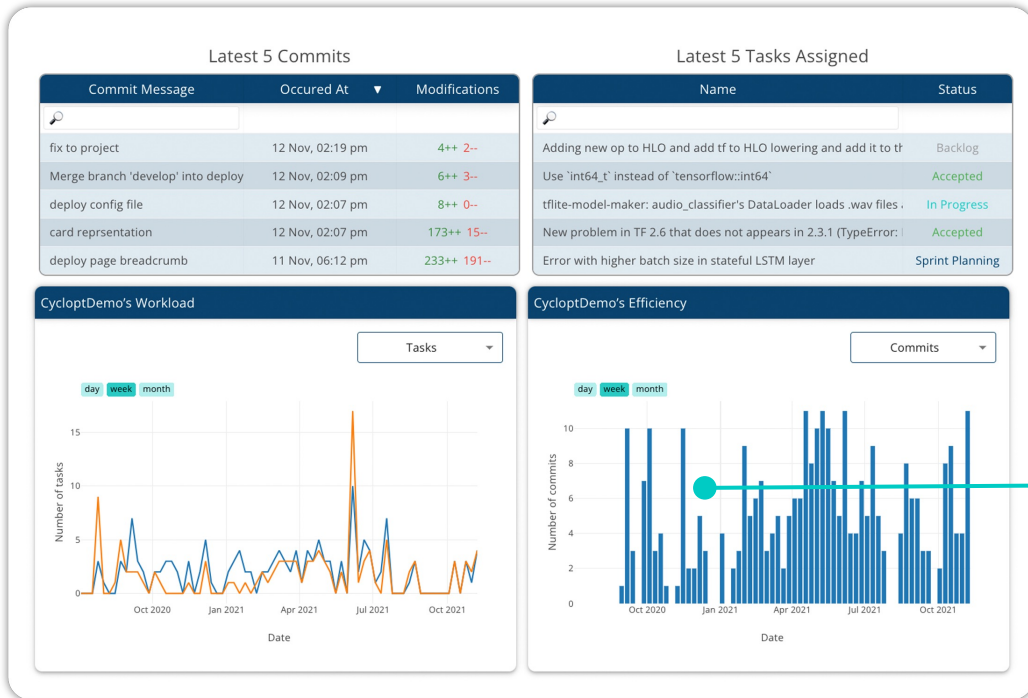Easily check the **work in progress** and the workload of your team!

Add your tasks, make assignments and know the current **progress!**

CYCLOPT PLATFORM

- **Know** your team

Keep track of **the workload** of your team!

Find out information about the **efficiency** of each team member

Find out more about us in our website
https://www.cyclopt.com/

Drop us an email at info@cyclopt.com

And feel free to follow us **@cyclopt** to get our latest news: