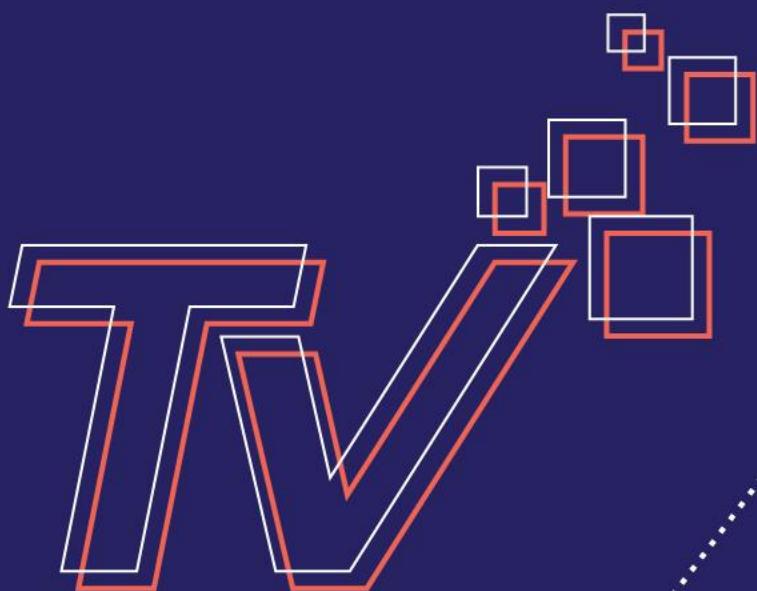




30 ans d'animation
de l'Écosystème Azuréen du
Numérique



QUI SOMMES-NOUS ?

**Principale association
des professionnels du Numérique,
couvrant l'ensemble de la Côte d'Azur**

NOTRE MISSION

Telecom Valley anime depuis 30 ans l'écosystème azuréen du Numérique à travers des communautés thématiques.

- > Fédérer et animer l'écosystème azuréen du Numérique
- > Favoriser la montée en compétences par le partage et l'échange
- > Favoriser le business de nos adhérents
- > Insuffler la dynamique entrepreneuriale dès l'école

CHIFFRES CLÉS



+160
adhérents



18 000
emplois



40 000
étudiants

+100
manifestations

+3 500
participants

12 COMMUNAUTÉS THÉMATIQUES ET LEUR PROJET PHARE

TECHNIQUES



CYBERSÉCURITÉ



DATA & IA

Sophia Security Camp**SophI.A Master Classes**

ÉCOSYSTÈMES

ENTREPRENEURIAT
ÉTUDIANT**Concours Challenge Jeunes Pousses**

STARTUPS

FIDMED Riviera**Agile Tour Sophia****L'innovation vue par****SophiaConf****TEST & QUALITÉ LOGICIEL**
Soirée du Test Logiciel**Trophée Objets Connectés & Services**CAPITAL HUMAIN &
INTELLIGENCE COLLECTIVE**Nuit du Capital Humain et de l'Intelligence Collective****Journée m-Tourisme****World Usability Day Sophia**

Animateur de la commission

- La commission test et qualité est animée par Julien Van Quackebe, CEO d'ALL4TEST, un pure player du test et de la qualité en France depuis 2006.
- Suivez l'actualité du test sur <https://www.all4test.fr/blog-du-testeur/>
- <https://www.linkedin.com/company/all4test/>
- Des questions : contact@all4test.com

15/04/2021

**Comment aider les DEV à optimiser la qualité de leur code ?
Comment simplifier et accélérer les tests unitaires ?**

**Ponicode est une stratup Française
qui propose une approche novatrice ...**



Ponicode

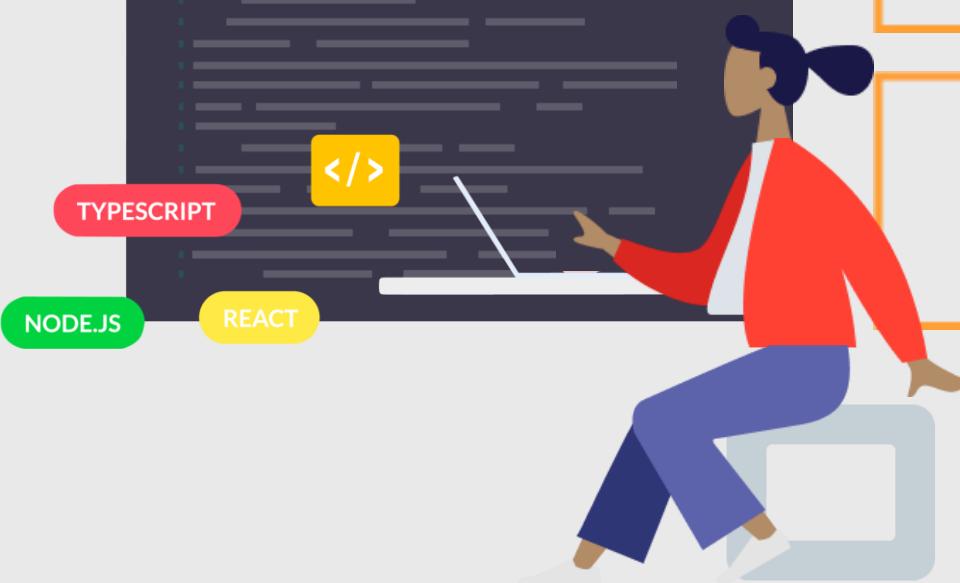
Quality code has never been so accessible

Arthur Lesne • Head of Sales • arthur@ponicode.com

Edmond Aouad • Data Scientist & co-founder • edmond@ponicode.com

•••

Computer programming
hasn't fundamentally
changed in decades.
While automation, the
cloud and new tools
ease the process,
coding is still coding.



Testing takes more than 1/3 of
developers' time

The estimated cost of bad code is
\$85 billion a year

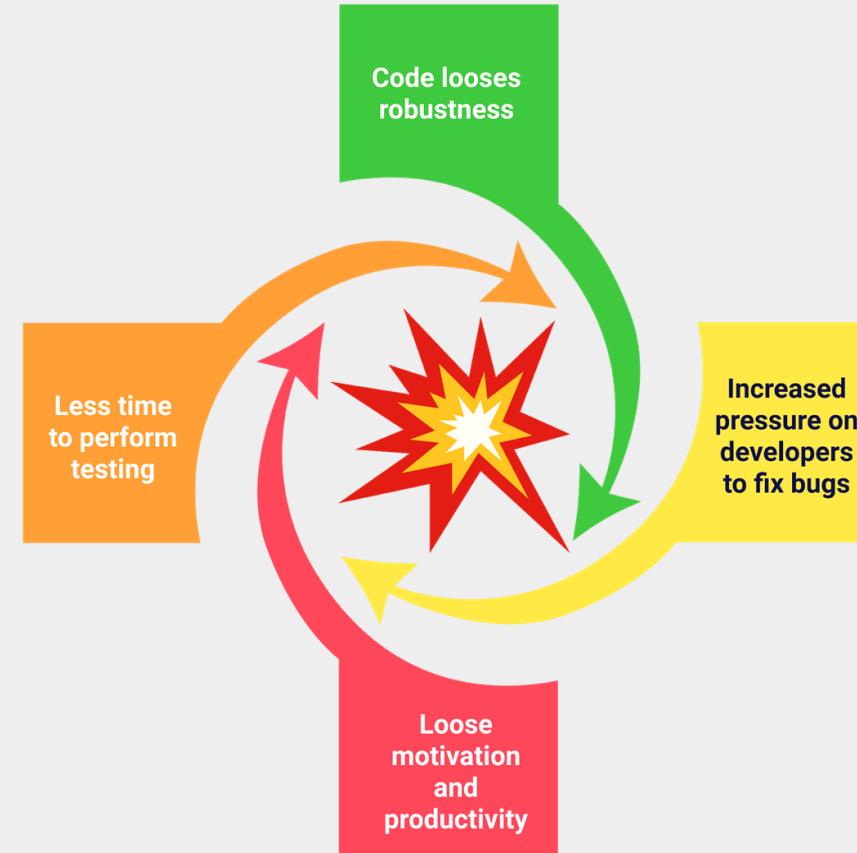
We want to improve developers' lives
and help them bring high-quality
software to the world!

*Source : ActiveState Developer Survey 2019
<https://www.cnbc.com/2018/09/06/companies-worry-more-about-access-to-software-developers-than-capital.html>

100% of developers experience the same thing

Code Quality is a hard-to-tackle issue

- Every software development team knows how unit testing is long and tiresome.
- Every software development manager experiences code quality as a troublesome topic.
- Every company encounters bugs way more often than feels acceptable.



It's time to move on

WHAT IF YOU NEVER HAD TO COMPROMISE ON CODE QUALITY ANYMORE?

We are an AI-powered platform for Software Engineers.

We empower Developers to ship high-quality, healthy code at unparalleled speed.



Adopting Ponicode reduces time spent on
any code quality and non-coding tasks
without ever sacrificing code quality.

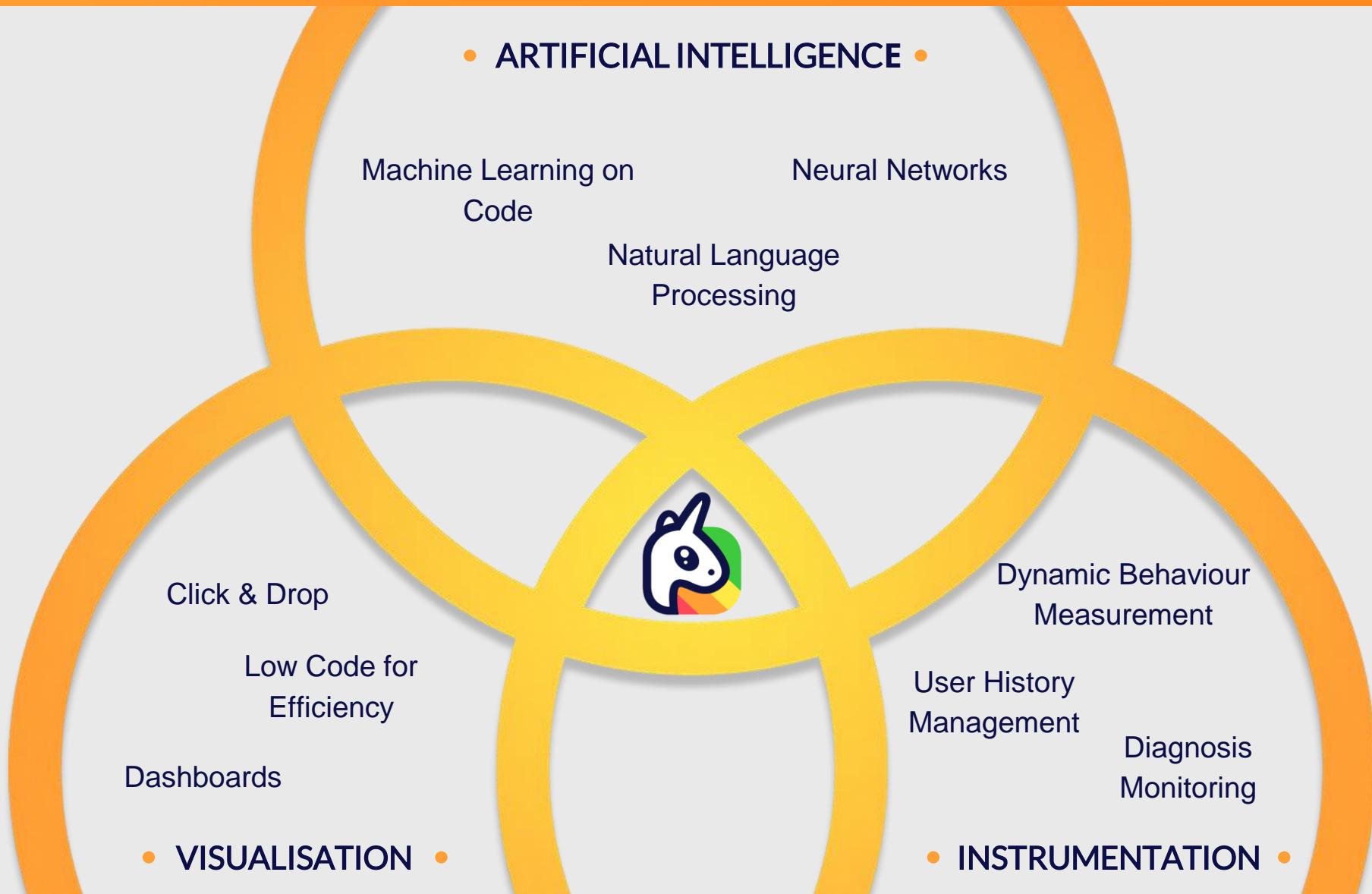
We want to become a Developers greatest
partner - everyday.

OUR PRODUCT



A PLATFORM DEDICATED TO
IDENTIFY FLAWS, MEASURE CODE QUALITY
AND IMPROVE ROBUSTNESS

OUR MAGIC RECIPE

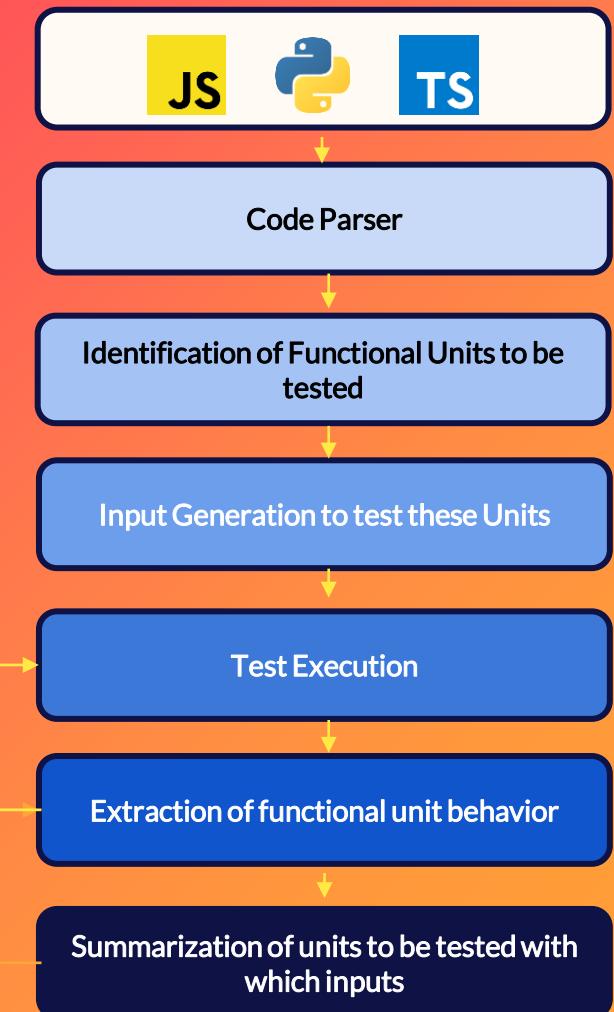


Ponicode Overview

UNIT TEST FEATURES

USAGE MODE	<ul style="list-style-type: none">Interactive Use of Ponicode on IDE-
LANGUAGE SUPPORT	<ul style="list-style-type: none">PythonTypeScriptJavascript
UNIT TEST	<ul style="list-style-type: none">Manual Test case creationAutomatic Test case creation (Suggestions, History)MockingTest runner (Javascript, TypeScript, Python)Test instrumenter (Javascript, TypeScript)Interactive Code Coverage display
TEST FRAMEWORK	<ul style="list-style-type: none">Jest, Pytest
IDE INTEGRATION	<ul style="list-style-type: none">Visual Studio Code (version 1.37.1 or above)Visual Studio is currently the by default Interface for Interactive Unit Testing ModeIntegration with IntelliJ in Ponicode Roadmap (cf Blockers discussion)

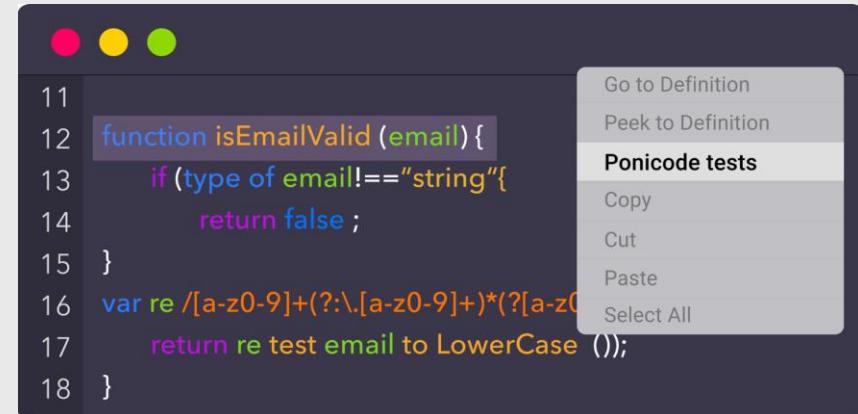
PONICODE AI ENGINE WORKFLOW



THE PONICODE TOOLS SUITE

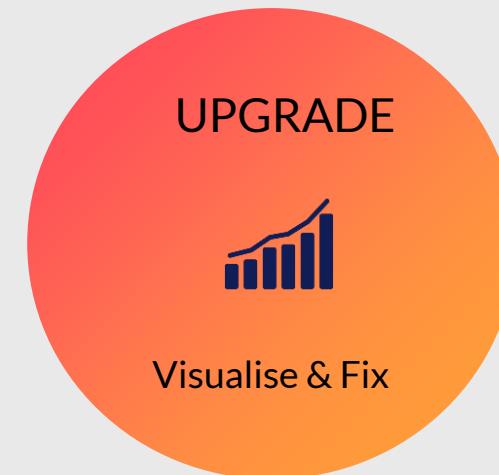
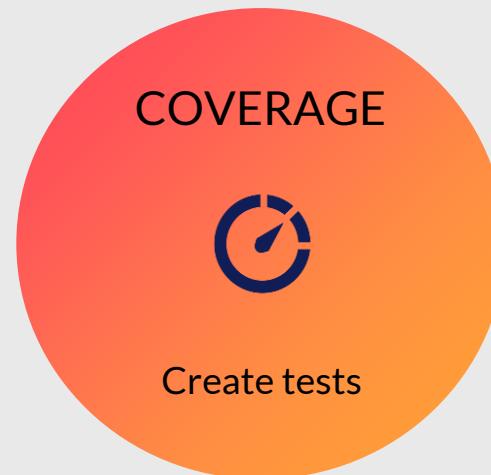
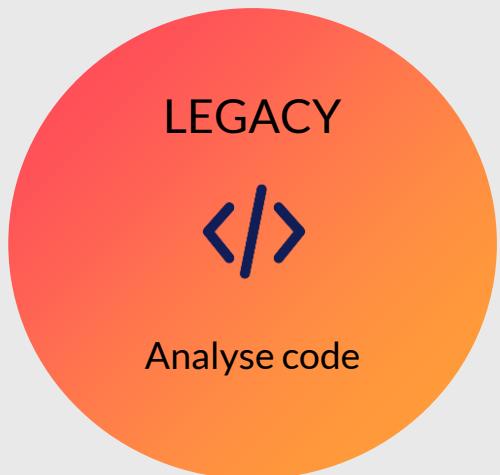
PONICODE UNIT TEST

- Unit tests generation in just a few seconds
- Available on the VS Code Marketplace
- Support Javascript, Typescript and Python



A screenshot of a code editor showing a context menu. The menu items are: Go to Definition, Peek to Definition, Ponicode tests (which is highlighted), Copy, Cut, Paste, and Select All. The code editor displays the following snippet:

```
11
12 function isValidEmail (email) {
13     if (typeof email !== "string") {
14         return false;
15     }
16     var re /[a-z0-9]+(?:\.[a-z0-9]+)*@[a-z0-9]+\.[a-z]{2,}/;
17     return re.test(email.toLowerCase());
18 }
```



OUR CUSTOMERS



EXAMPLES OF CORPORATE USE CASES



Software Factories

- Millions of lines codebase, no fixing prioritization, decreasing coverage
- Risk management vs innovation opportunities (avoid regressions)
- Not business critical = cost oriented = speed VS quality



- Enables **high quality code faster and maintained over time**
- Allows **maintainable and robust code**
- Reduces bugs, costs and resources on bug fixing



ISVs

- Code is their core business
- Bugs = customer churn
- Innovation = competitive advantage
- Time spent on fixes is not spent on innovation
- Developer happiness = competitive advantage



- Controls quality **throughout software lifecycle**
- Enables **reliable and cost-effective innovation**
- Developers **save time and deliver high quality code**
- Developers spend more time on **innovation & exciting tasks**



App to Cloud

- Existing codebase with limited documentation & coverage
- Increased regression risk as app is transferred to the cloud
- Time and budget pressure on replatforming projects



- Ensuring unit test on **legacy: Pre-migration** code coverage
- **Total control** over the scope and source of any **migration-related regressions**

WHO ARE OUR USERS

- Code Quality Control is time and resource consuming
- Bugs are eroding profits
- Poor monitoring of code quality homogeneity

- Bugs are accumulating in legacy code
- Developers are hard to motivate to test
- Have to sacrifice quality to meet deadlines

- Testing decreases creativity and motivation to ship new features

- No culture of code quality
- No incentive to unit test

THE PONICODE EFFECT

CTOs are happier

- Better quality control
- Maintainability
- Economies of Scale



CTO

Project Managers are happier

- Increased coverage
- Visibility & cleanliness



Project Manager

Developers are happier

- Increased code robustness
- Testing experience is enhanced



Developer

Data Scientists are happier

- Increased code reliability
- More credible code production



Data Scientist

THE PONICODE EFFECT

A unique solution for code quality, at every stage of software development



Reduce Legacy and Maintainability Issues



Enable Quality @Scale by implementing Shift Left and Agile Unit Testing



Achieve Code Coverage Targets And Maintain Code Quality Over Time



Reduce Unit Testing Efforts and Accelerate Reliable Innovation



Increase Developer Happiness

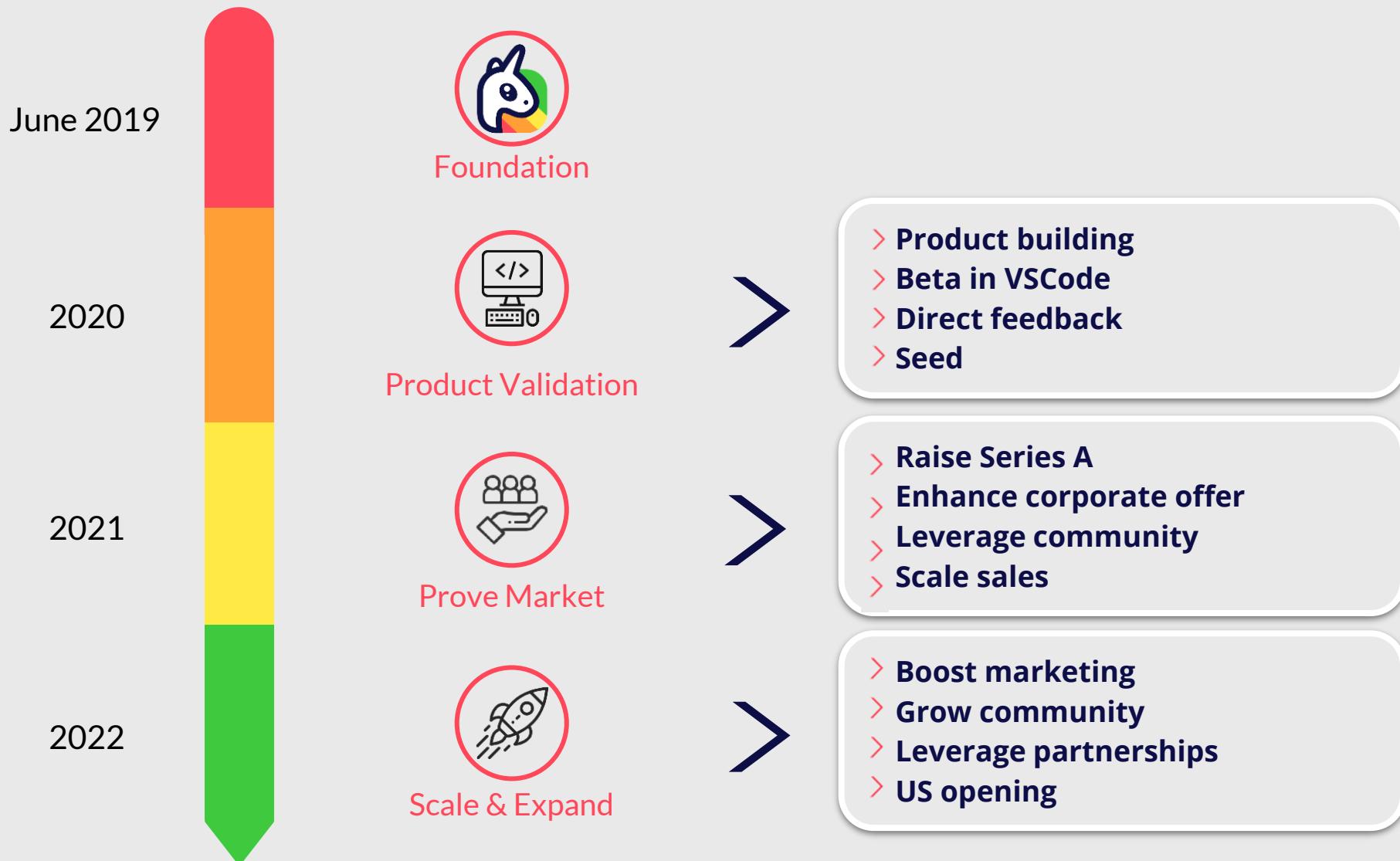


PONICODE.COM



Demo

TIMELINE





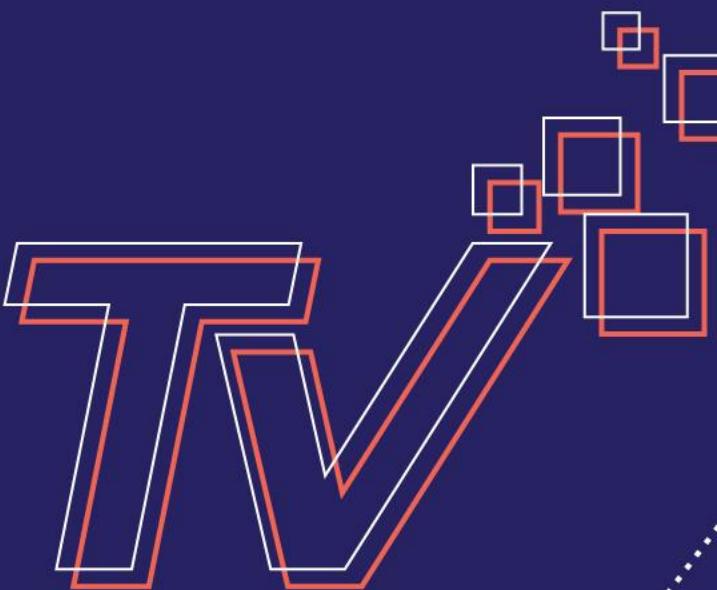
LET'S GET STARTED

Setup Ponicode for VSCode in
less than 3 minutes

[PONICODE.COM](https://ponicode.com)



THANK YOU !



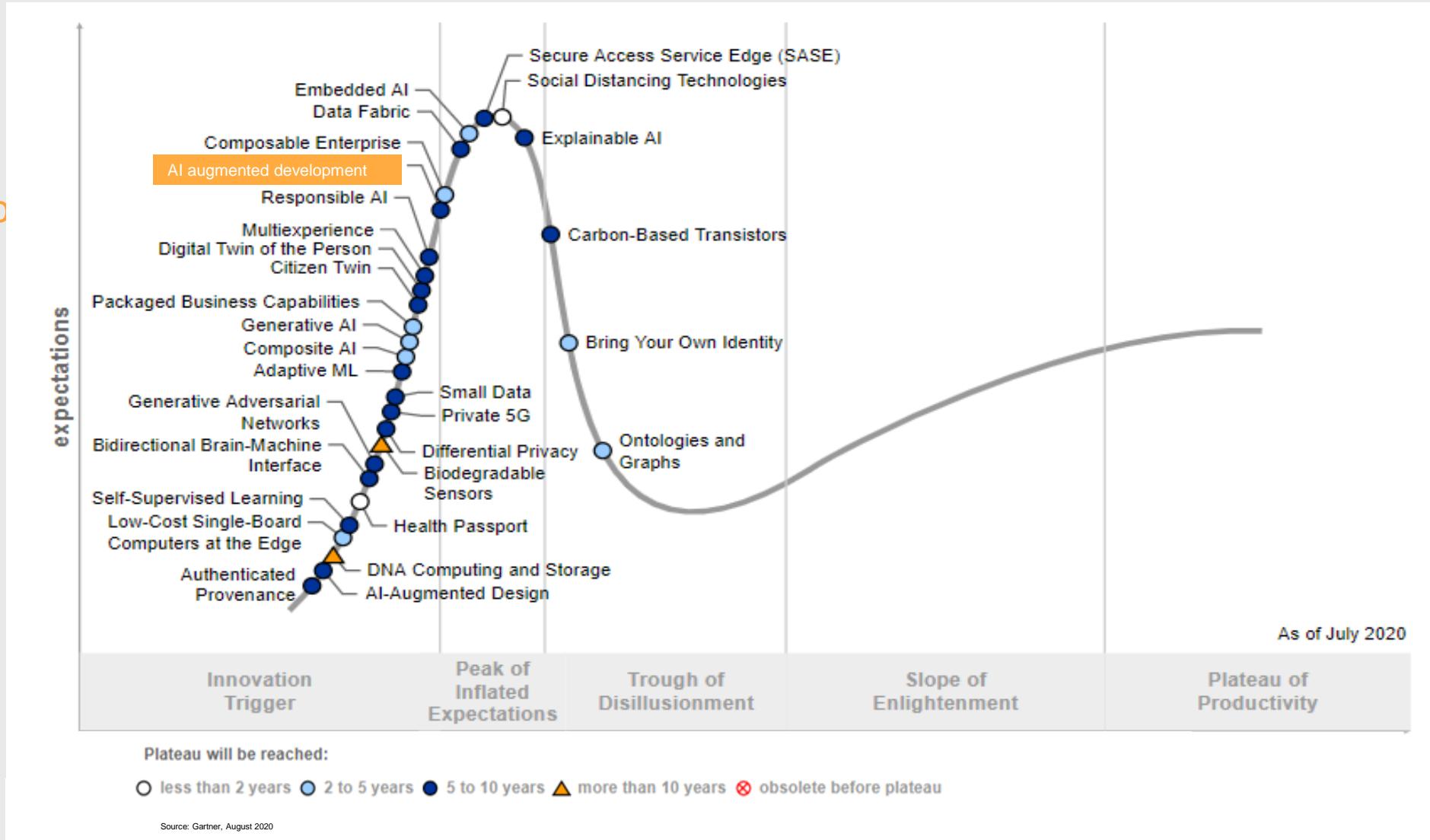
Merci de votre attention !

www.telecom-valley.fr



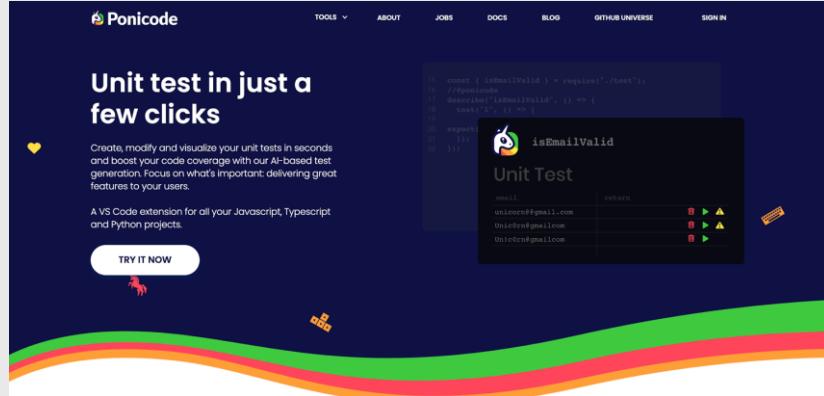
AHEAD OF THE INNOVATION CURVE

Ponicode fits right into
the Gartner Hype Cycle for
Emerging Technologies



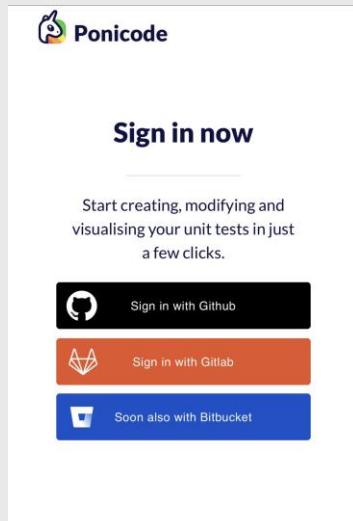
1

Go to www.ponicode.com and click on **TRY IT NOW** to access Ponicode's free VS Code extension



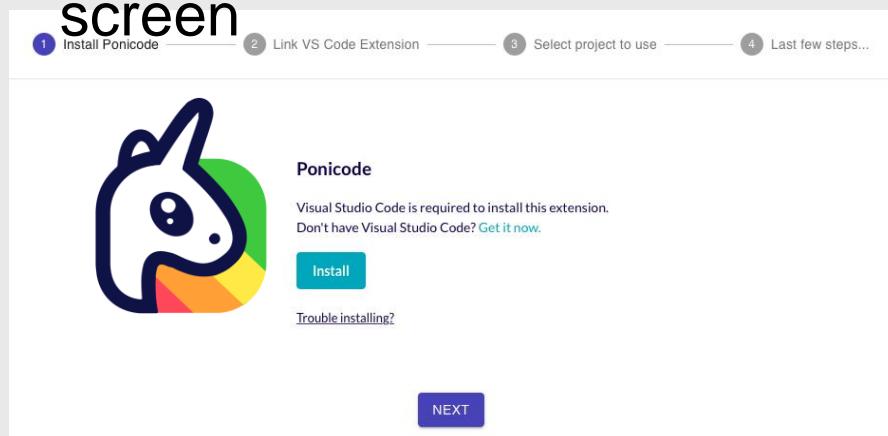
2

Log in with **GitHub**



3

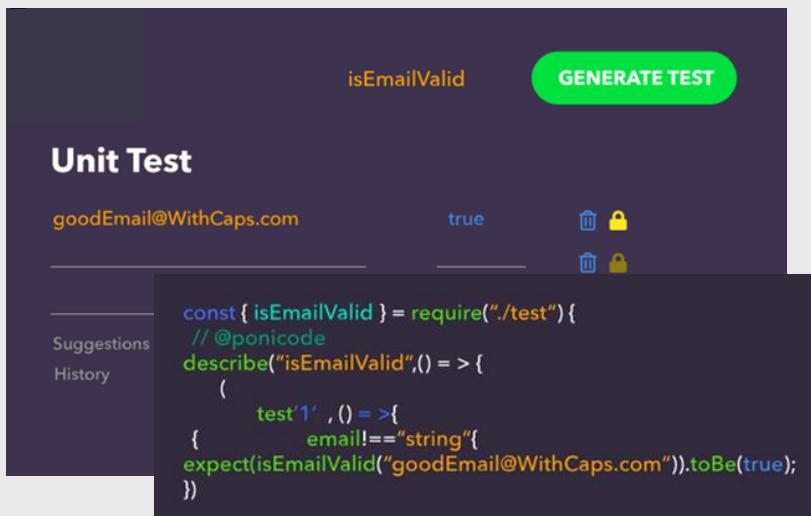
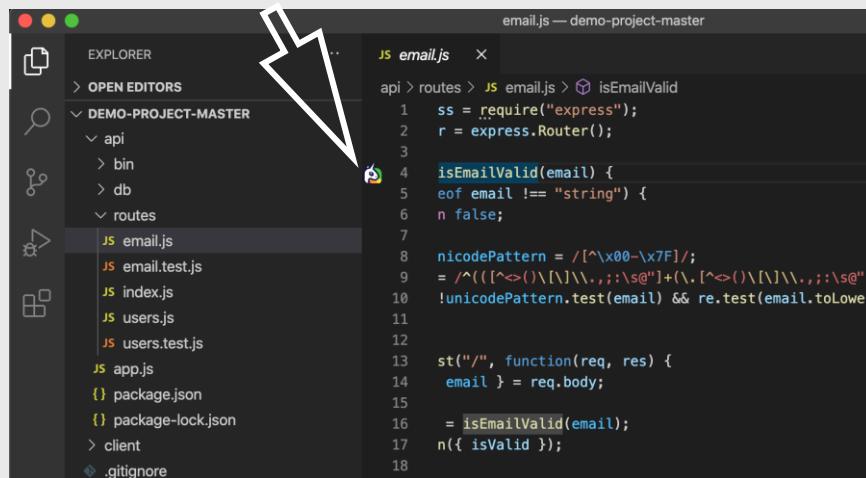
Install the Ponicode extension in VS Code and **link** it to your account on app.ponicode.com using the OTP at the bottom right of your IDE screen



YOU ARE SET UP IN **VSCODE** & READY TO UNIT TEST!

4

Each time you see the Ponicode logo on a function, you can right-click and launch the **webview**



5

Choose between history and **suggestions** to improve your **code coverage** with our AI-powered engine

6

Generate tests on the fly while maintaining flexibility and control over all values and test cases.