

# Agentic QE

*From AI Assistant to AI Workforce*



Dragan Spiridonov (Profa)

Quantum Quality Engineering

Ministry of Testing - Masterclass

# Who am I?

Dragan Spiridonov, (Profa)

- 30 years in IT (1996 → today)
- 12+ years QA/QE leadership
- 8 years @ Alchemy Cloud (QA/QE from scratch)
- Founder of Quantum Quality Engineering & Agentics Foundation Ambassador for Serbia (since October 2025.)
- Previous MoT event - November 2016
- Context-driven Agile Tester

## In the last year:

- AI-assisted UI testing framework (Alchemy - production)
- Agentics Quality Engineering Framework - <https://agentics-qe.dev/>
- 3 open source projects (agents creating & testing agents)
- Real successes + real failures + real teams

## MEET DRAGAN "PROFA" SPIRIDONOV



### WHO AM I?

HUSBAND & FATHER OF 2 GROWN-UP GIRLS

TEENAGE GIRLS (19 & 17)

4 DOGS & 2 CATS

### PASSIONS & HOBBIES

BOOKS, MOVIES, COMICS, SCI-FI & FANTASY LOVER

LONG WALKS & DANCING

GOOD FOOD & DRINKS

### EXPERIENCE & SPIRIT

18-YEAR-OLD SPIDIT

33 YEARS OF WORKING EXPERIENCE

All art work images were generated using Nano Banana

# The Testing Crossroads

## AI-Accelerated Development



Developers now have AI writing code faster than ever.

## The Testing Question



**What happens to testing?**

The acceleration is real. The question is how we respond.

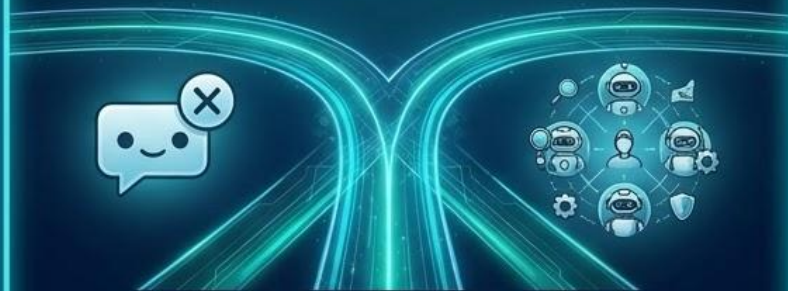
# Two Futures

## OPTION A The Bottleneck



Sprints **pile up**  
**Quality** suffers  
Testers **burn out**

## OPTION B Evolution



**Stop thinking:** chatbot to ask  
**Start thinking:** workforce to direct

That's what Agentic QE is about.

# The Paradigm Shift

## COPILOT MODEL



One AI, many tasks  
You prompt, it responds  
Reactive (you ask)  
Session-based  
You do the synthesis

## AGENTIC MODEL



**Specialized** agents, specific roles  
You **direct**, they execute  
**Proactive** (they surface)  
**Continuous**  
They bring perspectives, **you decide**

From assistant to workforce

# PACT Principles

**P**

## Proactive

Doesn't wait for you to ask "what's missing?" — it tells you.



**A**

## Autonomous

Give it a task, it works. You don't babysit.



**C**

## Collaborative

Brings perspectives you might miss. You bring judgment.



**T**

## Targeted

Each agent tuned for a specific testing activity.



# Your Agent Workforce



**YOU (Tester)**

Direct • Judge • Decide

**Requirements  
Analyst**



**Test  
Designer**



**Exploratory  
Support**



Specialized agents for specific activities

# Live Demo

## DEMO PROJECT

### Iron Pets

E-commerce platform for pet supplies

Next.js + Node.js/Express

Mid-development. Real bugs. Real docs.

[github.com/proffesor-for-testing/iron-pets-by-jarvis](https://github.com/proffesor-for-testing/iron-pets-by-jarvis)

## DEMO FLOW



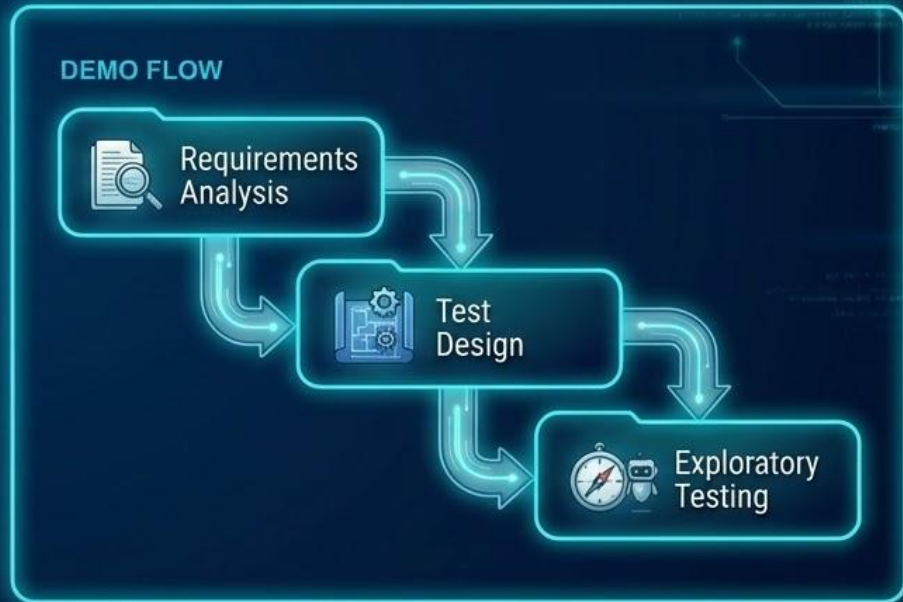
Requirements  
Analysis



Test  
Design



Exploratory  
Testing



# ACT 1 — REQUIREMENTS ANALYSIS



## TRADITIONAL

- Read the PRD
- Make notes
- Bring questions to planning
- Maybe catch the issues...



## AGENTIC

- Agent analyzes PRD instantly
- Checks 100s of anti-patterns
- Surfaces risks proactively
- **Consistent, every time**

```
claude `use @qe-requirements-validator to analyze @docs/iron-pets-mvp-prd.md, report findings`
```

**PACT: Proactive** — Issues surfaced before code exists

# ACT 2 — TEST DESIGN

“Not asking it to write automation. Asking it to think about test design.”



## SKILL GENERATES SUGGESTIONS

- Happy path scenarios
- Edge cases
- Negative testing
- Data combinations
- Requirement traceability



## YOU CURATE

- ✓ Accept relevant scenarios
- ✗ Reject what doesn't apply
- + Add domain-specific cases

**Your testing brain is essential**

```
claude `use /test-design-techniques skill to design tests for "shopping cart" feature, read @docs/iron-pets-srs.md to check feature requirements.`
```

**PACT: Collaborative** — It generates, you curate

# ACT 3 — EXPLORATORY TESTING

"Agents as investigation partners, not replacements."

## THE FLOW



```
claude 'use /exploratory-testing-advanced skill and suggest test charters for "shopping cart" feature, read @docs/iron-pets-srs.md to understand feature requirements.'
```

**PACT: Targeted — Focused investigation, not random clicking**

# What Agents **Can't** Do

- X Understand your users' actual context
- X Make judgment calls about acceptable risk
- X Know which bugs stakeholders care about



- X Feel the "wrongness" testers sense
- X Navigate organizational politics



These require **human judgment**

The limits are real. Know them.

# What Agents & Skills Do

✓ Surface information faster

✓ Apply consistent patterns

✓ Generate new options

Agents & Skills  
**amplify**  
your capabilities

✓ Handle tedious documentation

✓ Never tired, never have bad days

The value is real. Use it.

The testers who thrive in an agentic world aren't the ones who race to automate everything.

**They're the ones who become excellent at directing, curating, and deciding.**



Agents handle **volume**.

You provide **judgment**.



The value is real. Use it.

# Getting Started

## RESOURCES



### AQE Fleet

Open-source agent framework

### The Quality Forge

forge-quality.dev



### Agentic Foundation

Community resources

### PACT Framework

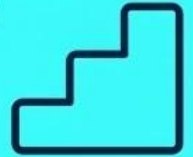
Holistic Testing Model evolved



## START SMALL

**Pick ONE testing activity where you feel overwhelmed.**

Experiment with an agent for that.



Requirements review for testability



Test scenario brainstorming



Bug investigation paths

The best way to understand is to try.

# Thank You

Questions?



**Dragan Spiridonov (Profa)**



Quantum Quality Engineering



Agentic Foundation Ambassador



[forge-quality.dev](https://forge-quality.dev)

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