

# TDD4C



## Test Driven Development for Consultants

(unit tests for Price  $f(x)$  formulas and elements actually)

DISCLAIMER: Presented opinions just show Tomas' own view and does not necessarily mean that he is always right. Although, he usually is.

# Goals

- Decrease TCI and mainly TCO
- Decrease # of defects
- Make implementing business requirements fun again!



# DEMO

scratching the surface

# Pros

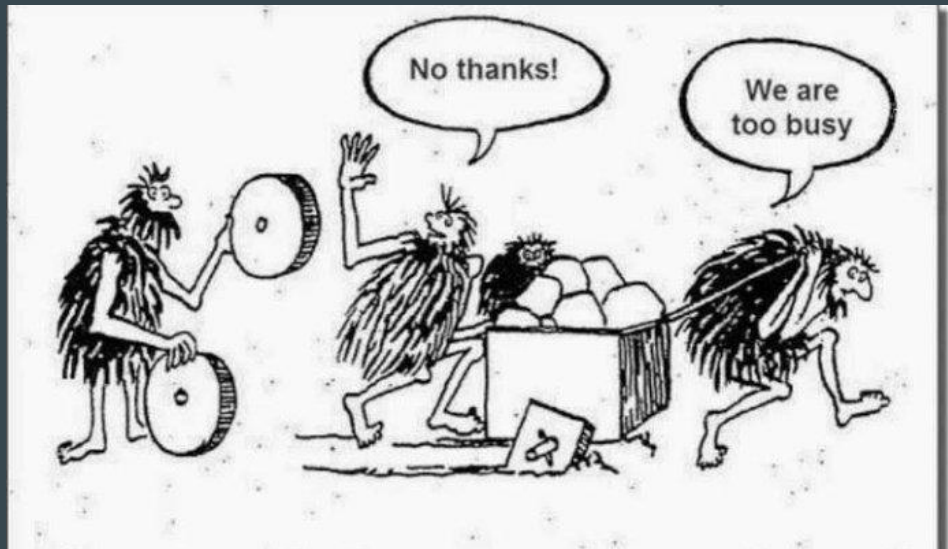
- Working locally in your preferred IDE (Intellij, Eclipse, Emacs,...)
- Extremely fast feedback loop -> fast progress
- Local debugging
- Tests are output of TDD and can be run on CI server (Jenkins)
- Regressions caught automatically, not by customer -> leads to better relationships
- Change requests are processed much faster
- More work done/more free time

Programming is joy again



# Cons

- New to people, mindset change needed
- Needs to be accepted by all members of project team
- Not that useful for “glue” code



# A common problem

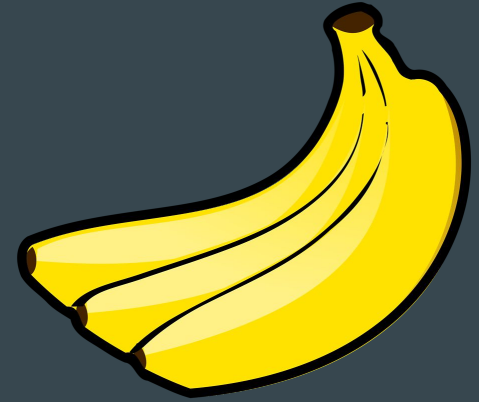
1. The tests must already exist, to prove that they can help
2. People think (because of lack of experience) that TDD slows them down
3. People not willing to use TDD, because it (so far) never helped them, GOTO: 1.



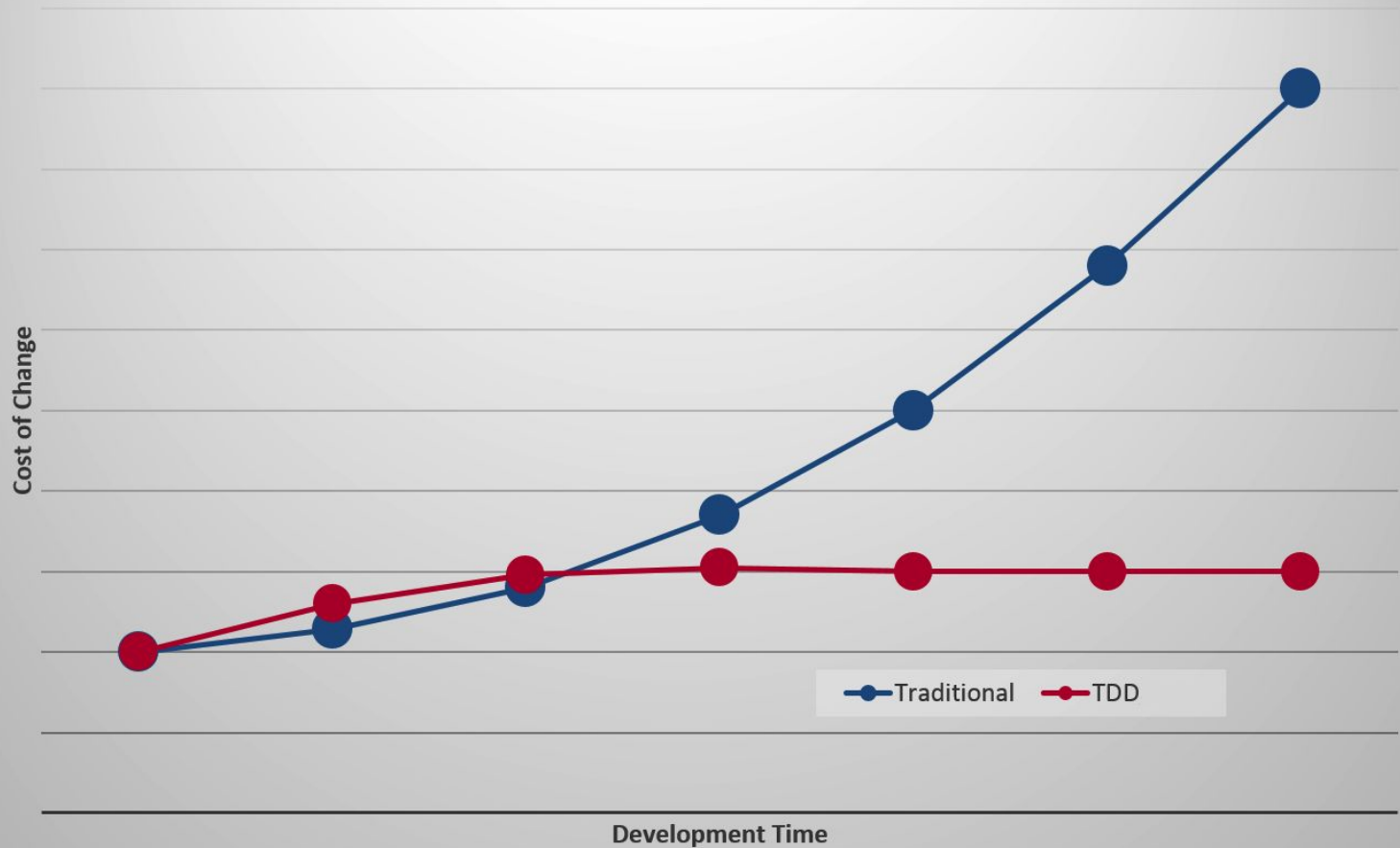
TDD4C is already successfully used on: Stramit, Bosch, Schneider Electric

# What it brought to me?

- 2x faster (TCI), TCO minimized
- Sleep well
- Much more content with my work
- Decreased stress levels
- When I say that I have done something, it usually works - no surprises



# Cost of Change vs. Development Time



# I'm not kidding, I'm pretty serious about TDD

- I already introduced TDD successfully twice in the past
- Summer 2016: Price f(x) Eng - integration tests for server
  - Adopted by whole team
  - 1000 tests (currently) x 3 DBs
- Winter 2015/2016: Local Solution Delivery Company
  - trained 3 teams
  - one team followed this and it helped them incredibly
  - they are introducing it to all their projects
- TDD is standard in SW industry

# Q&A

Sources:

- Robert C. Martin  
<http://blog.cleancoder.com/uncle-bob/2012/01/11/Flipping-the-Bit.html>
- Martin Fowler <https://martinfowler.com/tags/testing.html>
- <http://wiki.c2.com/?TestingPatterns>

