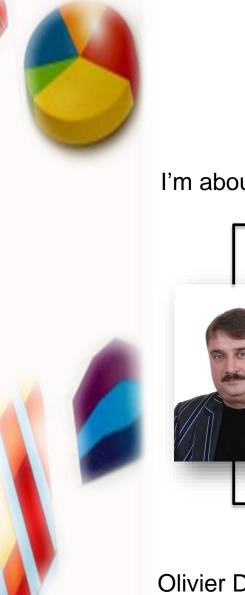
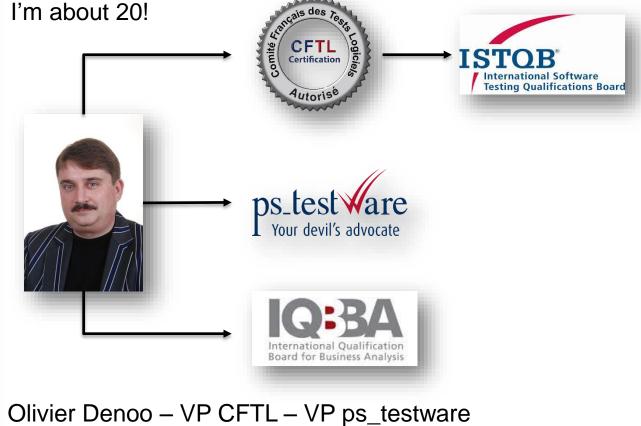


#### What is Wrong With My Metrics?





## Me Myself and I



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#### 1. What Is This All About?

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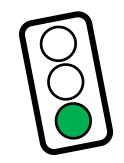
## Much Ado About Metrics

- Metrics are:
  - A managers' disease
    - Watch out, it is more contagious than flu!
    - ...and makes many more victims
  - A convenient way to bother those who (really) do the job
- The symptoms how to detect:
  - I'm the King of the World (Titanic)
    - ...well, of my own little world (The Bromeliad Pratchett) ACT
  - I know EVERYTHING, I know the TRUTH
    - ...even the bits not fit to be told UNDERSTAND

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## The Higher the Simpler...

• Top Managers' Favorite's



• The Ultimate One

• Even better...



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## But First, You Need Some To Start With...

• Will the culprits please rise (names! names!)

- Which ones have you got?
- How about the others?

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#### 2. Tester's Midsummer's Nights Dreams... and Many More Alas!

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### Sun – Mon: 1<sup>st</sup> Dream



 How about measuring the number of defects?

 And - how splendid! - evaluate our testers based upon this figure?

## Mo – 1<sup>st</sup> Nightmare

- I've got 1000 defects Is it good?
  - How important all in all?
  - How many are left?
  - What do you do with them?



- I've got 3 defects Is it bad?
  - How long did you take to find them?
  - How « old » is the application From how long do we find some?
- Who's gonna be billionnaire: Patrick with 100 useless bugs or Steve with 10 critical ones?
- Defects are like earthworms, when you cut them into parts they multiply!

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## Wake Up!

Number doesn't matter!



- What is better is the enemy of what is good
- Stop confusing: People are NOT their jobs.
- Evil thoughts for the Evil Minded:
  - Just count the *solved* defects in the evaluation
  - You start a big fight between Testers and Developers – Yipee!

## So, What Are We Talking About?

- Number of defects
  - Severity (impact)
  - Description, details
  - Priority (how urgent)
  - Status
  - Where (function, version...)
  - Probability of occurrence and detection



## Mo–Tu – 2<sup>nd</sup> Dream

 Let's set up individual performance goals?



- How about measuring them?
  - 10 bugs out per person (DEV) and per day
- Promote the best and warn the rest?
   No arms, no legs, no kisses!

# Tu – 2<sup>nd</sup> Nightmare

- The goal is reached...BUT
  - Not the good but the easy bugs
  - Low hanging fruits



- 3 times more « returned defects » not reproducible
  - ...like the tester's workload
- …not to say a word about planning
- It's party time!

## Wake up!

• Number is not enough!



People are NOT products – let's not confuse.

A very good atmosphere between
 Testers and Developers – guaranteed!



## What Are We Talking About?

• Number of fixed defects / unit time

• Number of found defects / unit time



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## Tu-We – 3<sup>rd</sup> Dream

 How about measuring Progress?



...Oh! And let's infer planning from there?

• Cool!

## We – 3<sup>rd</sup> Nightmare

- To infinity and beyond
  - Requirement? Test Design? Test Case?
     Validation Point?...Where is it worth to measure?
  - …at what cost?
  - When 1 is not equal to 1
    - Some are more complex
    - Some are repeated (add, modify, delete)
    - Some contain more or less data
    - Not to say anything about their own quality



$$a = b$$

$$a^{2} = ab$$

$$a^{2} - b^{2} = ab - b^{2}$$

$$(a+b)(a-b) = b(a-b)$$

$$a+b = b$$

$$\therefore b+b = b$$

$$\therefore 1+1=1$$

$$2 = 1$$

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# Wake Up!

• It is all about Complexity and granulometry



- The same goes for Quality metrics (% passed product vs % coverage)
- Progress is neither good nor bad, only the story counts...
- ...and they arrived all together in the end.



# What Are We Talking About?

- % Coverage
  - Design
  - Execution
- Requirement, Test Design, Test Case
- %Coverage / unit time

• Linear or non-linear regression?

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#### We-Th – 4<sup>th</sup> Dream



 How about « boosting » the team efficiency so as to cope with our top notch « high performance culture »?



## Th – 4<sup>th</sup> Nightmare

- So cool! But what do we reward exactly
  - Developers, building and then fixing defects?
  - Testers who find them and make sure they are fixed?





- Brand new unpolished application or 20 years old system
- How about techniques, maturity, HR positioning, training,,,?
- How old is the captain by the way?

## Wake Up!

• Fast is OK, too fast is chaos



• You measure what you control (and vice-versa)

• ...in the end we all cross the line together.



# What Are We Talking About?

- Defect detection rate, efficiency
- Defect fixing rate, efficiency
- MTBE, MTBF
- %Errors in test
- %Test maintenance

### Th-Fr – 5<sup>th</sup> Dream



 Let's build an ultimate dashboard that is sooo good that competition would love to hate it!!!

## Fr – 5<sup>th</sup> Nightmare

- Brilliant! I want more...and more
  - Big mid-season price today

...weather forecast + fitness program + whosdonewhat + ...

Supersize me...but go to the slightest detail as well



- No...all Mercedes Class C, 220D, 5 doors that are licensed in department 59 with an owner living in Ronchin must get this premium...it only applies to the blue ones
- ...until you're lost in space
   My defect...where is my defect?

## Wake Up!

- Too much info kills the info!
- The more you get, the more you want!
   ... victims of their own success
- How much are you ready to pay for this?
- What do you (exactly) get out of there?
- ...can you (really) act upon it?



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### What Are We Talking About?



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## Sa – 6<sup>th</sup> Dream

 How about exploring the unknown lands of quality and discovering strange and exotic estimators?



- UML for Dummies
- Test Planning for Dummies



## Sa – 6<sup>th</sup> Nightmare

What? Oh technical tests should be in...and automated...and you considered they are part of the deal. Hmmm! Oh and they should also fit with MsOpenJava\_on\_Rail for mainframe... in a vitualized environment, of course, piece of cake!...no, no nothing to change.
 Anyway the contract is signed, right?



Yes of course we planned two regression test campaigns...for sure...I think Can you remind me what you call like this by the way?

## Wake Up!



- What do we know for sure?
- What do we master?
- What are the rules and how explicit are they?
- What is under control and what is not?
- What are the expectations and how clear are they?



## What Are We Talking About?

• Test (effort) Estimation

• Test Planning / Estimation

• Test Strategy (test techniques, test levels, test types...)

Iterative approach and estimation

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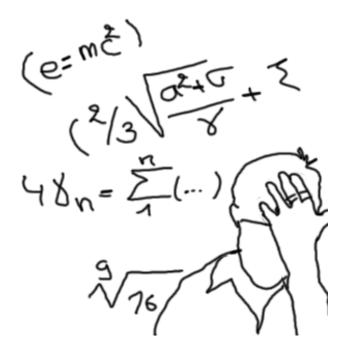
#### 3. Want Some More?

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#### Su – Get A Rest

Let's learn the lessons of all this?





## What Are We Talking About?

- Test Metrics
  - Are NOT the Truth but in the best case a partial representation of it
  - Have no intrinsic value they are only worth in a given context, compared with each others or because of their evolution
  - Are NOT the goal, They are only means to better understand and act
  - Don't make politics...but have a serious affinity for it
  - Are no better than the story behind them
  - Are incompatible with people
- So, should we stop measuring then?

### Wake Up!

• No way folks! It's Sunday

Stay reasonable and everything will be for the best in the best of all possible worlds

Thank You Very Much Olivier Denoo VP CFTL VP ps\_testware S.A.S. <u>vice-president@cftl.fr</u> ps\_test are Your devil's advocate olivier.denoo@pstestware.com

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