Futuro de COSMIC

Alain Abran
COSMIC Chairman

Frank Vogelezang
COSMIC President

Agenda

The future of:

- COSMIC in industry
- COSMIC research
- The COSMIC organization

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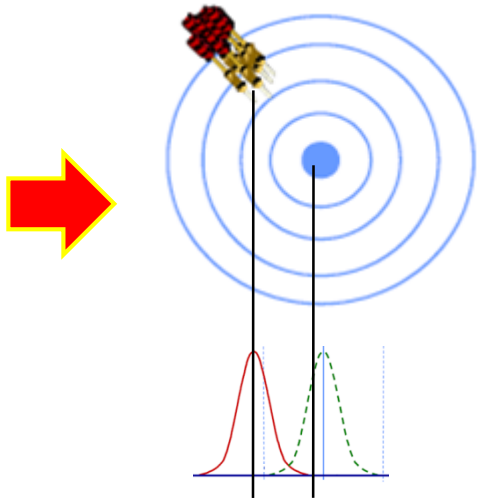
COSMIC in industry

How can we best support the use of the COSMIC method

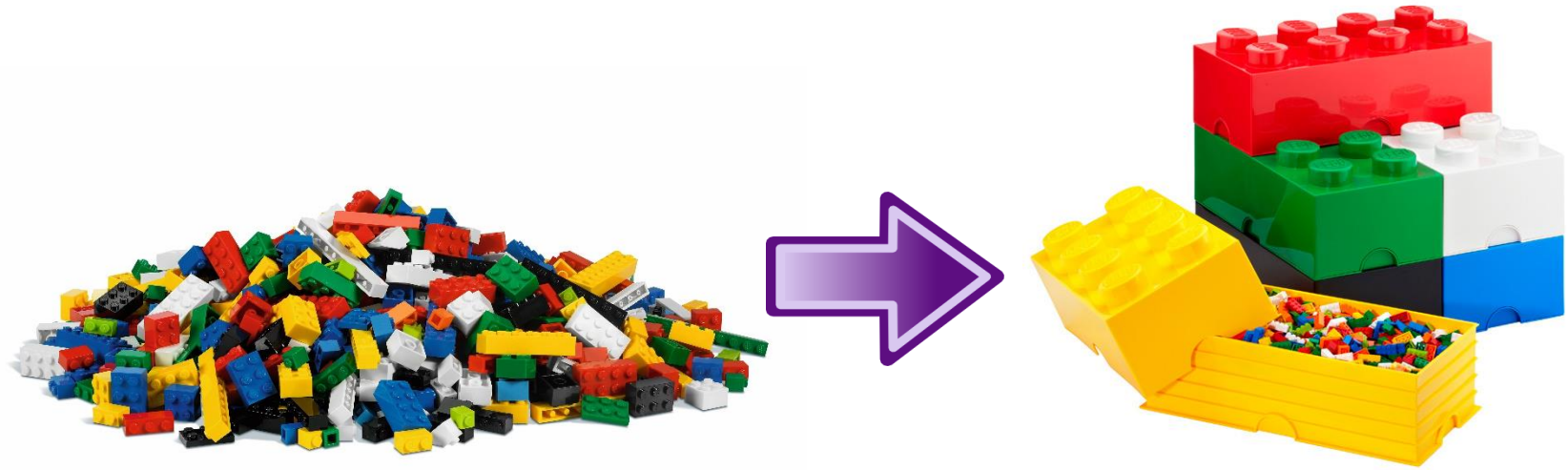
Better Project Effort Estimates



- Early decision support
- Estimate the real size
- Tracking of the development process

Early Size estimation

- Quick methods to determine size to support project effort estimates

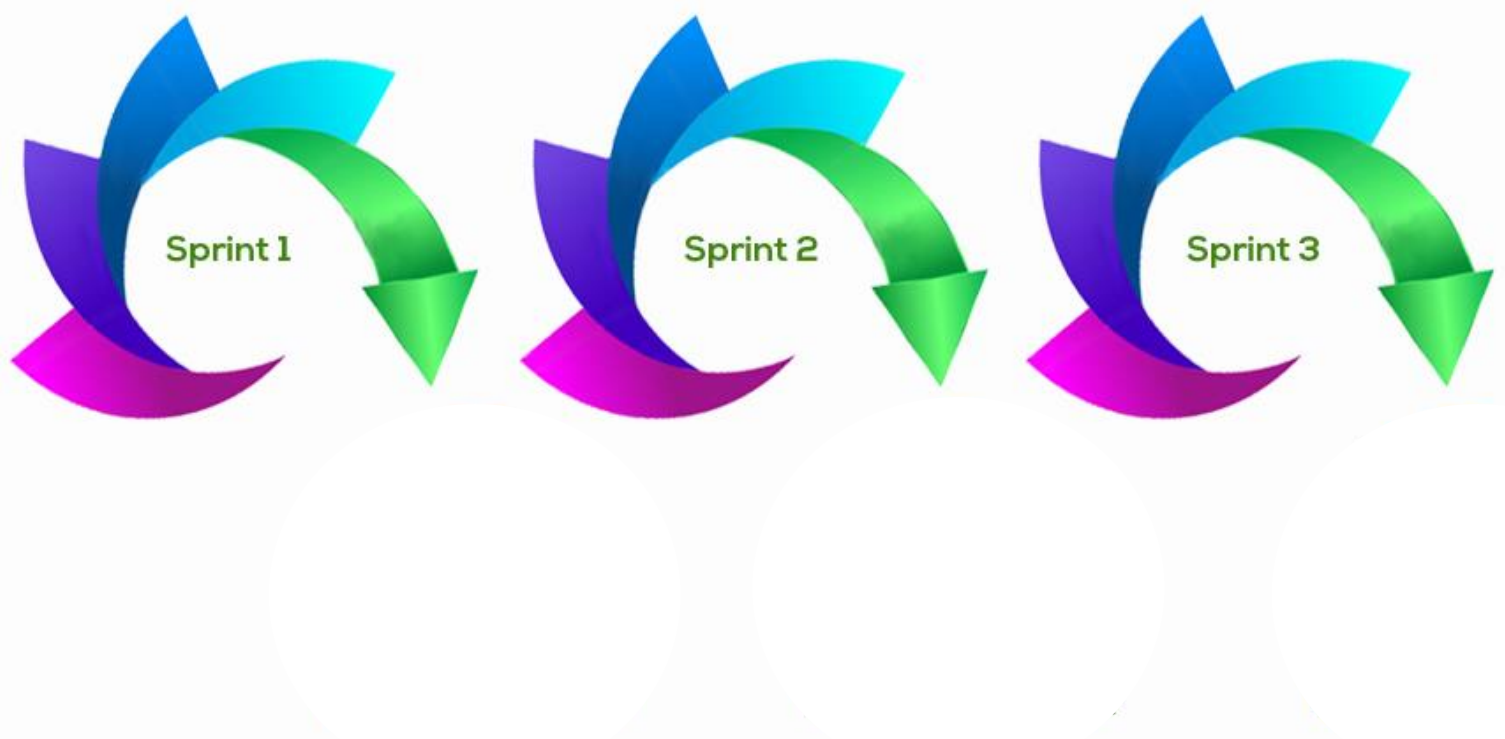


Estimate the real size

- Different "sizes" for different goals
- Insight in NFR that become functionality

Tracking the development

- Measure the size a rapid as you develop
- Benchmarkable size for feedback



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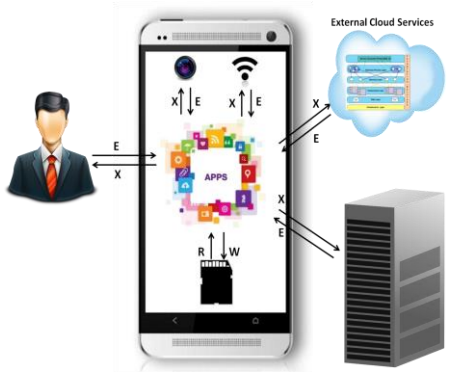
Benchmarking

- More than "one size fits all"

Case Studies

- Size



Guideline for sizing simple mobile apps

- Use in contracts

How to combine Agile (highly flexible) with outsourcing (tend to be rigid)

Community Support

22/03/2015 at 05:03 #3134

Shantanu Khandelwal

Participant

Can anybody please help to clarify the above?

23/03/2015 at 15:42 #3135

Charles Symons

Participant

Shantanu,
I think the following is the answer, assuming you are using the term 'client/server' as it is commonly used in the world of business application software.
If a functional process of the client component of a cl/svr system issues an Exit to the server in synchronous mode, it will wait for the reply which it will receive as an Entry. The client functional process needs one such Exit/Entry pair for each object of interest about which it sends a data group to the server and expects to receive a response.
Note that this answer assumes that the exchange involves a protocol where any error or fault data may be included in the return message, received as the Entry. If an error/fault indication could be received as a separate message about an object of interest different from that sent and received by the client, this would require a separate Entry to the client functional process.
Thomas Fehlmann makes the point about 'establishing synchronicity'. I would have thought that if your question relates to a cl/svr relationship in the application layer, then establishing synchronicity would take place in a lower layer, and would not be the concern of the application. So there would be no effect on the data movements of the application client.
However, you work for a telecoms company, so my assumption about your question being related to a cl/svr relationship in the application layer might be wrong. If your question relates to software in the telecoms layers, then I would need a fuller description of the requirements in order to answer the question.

I hope this helps.

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COSMIC Research

What fundamental answers do we need?

- Measurement ‘étalons’ as in sciences & engineering
- Measurement instrumentation: traceability to ‘étalons’
- Measurement legal infrastructure for business

Automated measurement

Model Driven Requirements

- Proof of concepts that it works:
  - with very high accuracy
  - With a very detailed verification protocol
  - in conformity to ISO standard ISO 19761
- Implementation in a large industry context at Renault

MATLAB SIMULINK

RENAULT
Passion for life

- Work in progress with other technologies

Automated measurement

Contributing Universities

- Model Driven Requirements
  - Ecole de technologie superieure – Université du Québec (Canada)
  - Université Versaille St-Quentin (France)
  - Politecnica Valencia (Spain)
  - ….
- Textual Requirements
  - Concordia University (Canada)
  - …

Estimation from requirements

- Quality of requirements:
  - Completeness
  - Ambiguities
  - inconsistencies
- Definition of quantitative scales in requirements documents (as in engineering plans)
- Mandatory presence of quantitative scales for written requirements
  - Models of requirements
  - Textual requirements
  - Whatever techniques for requirements

Software Architecture (& Design)

- Currently, software 'engineers' do not use measurements!
  - Are they really 'engineers' if they cannot measure what they do or promote as 'best practices'?
- Functional sizing should be:
  - an integral quantitative control within a software architecture…!
  - a mandatory tool of software engineers…!

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COSMIC organization

What will COSMIC look like in a decade

Spread the word

Take up the challenge

- Inspire the software engineers to start measuring properly, and help them improve
- Encourage users of pseudo metrics to get serious and use proven best practices
- Facilitate 1st generation FSM users to enter the next generation, without losing valuable metrics history

Stimulating growth

- Countries without a historic FSM preference can start with the best practices available
  - Poland
  - France
  - Mexico

Building a community

- More democratic, less reliant on Founders

Building a community

AMMS

Welcome to COSMIC-Sizing

ISBSG
Delivering IT Confidence

ResearchGate
SCIENTIFIC NETWORK

IWSM MENSURA

nesma

5-7 October

Cracow

Cooperation with others

ISBSG Delivering IT Confidence

nesma

TM

USC University of Southern California

aace International The Authority for Total Cost Management™

ICEAA

Agenda

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Recap

- COSMIC can help in improving the quality of Software Project Estimates
- COSMIC needs to improve the use in projects and benchmarking
- COSMIC is based on fundamental software engineering principles and is a fully open source method
- COSMIC is building a community to promote and support FSM

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QUESTIONS?

ANSWERS!

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www.cosmic-sizing.org