



QuASoQ 2014

**2nd International Workshop on
Quantitative Approaches to Software Quality**

Jeju, Korea, Dec-1

in conjunction with

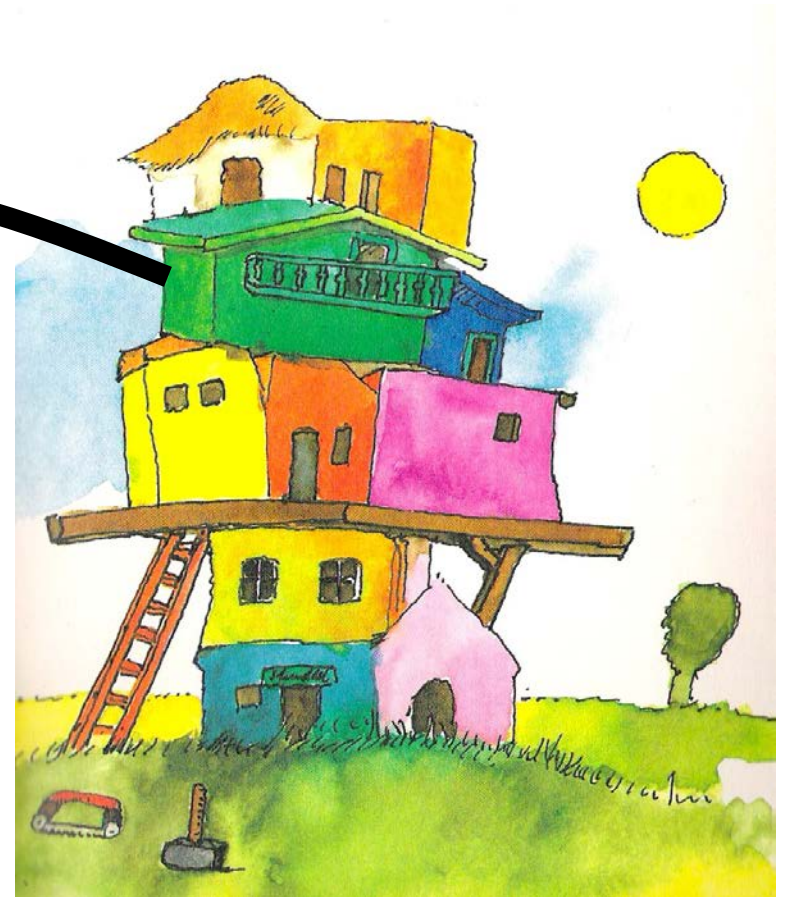
**21st Asia-Pacific
Software Engineering Conference**

 **APSEC 2014**

Research on quantitative approaches



State of practice



Quality

The **degree** to which a system, component, or process meets

- **specified** requirements
- customer or user **needs** or **expectations**

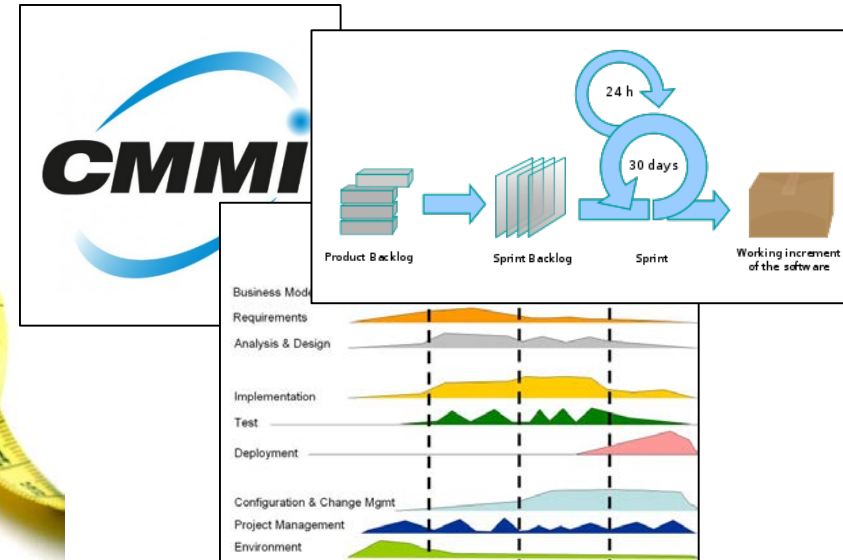
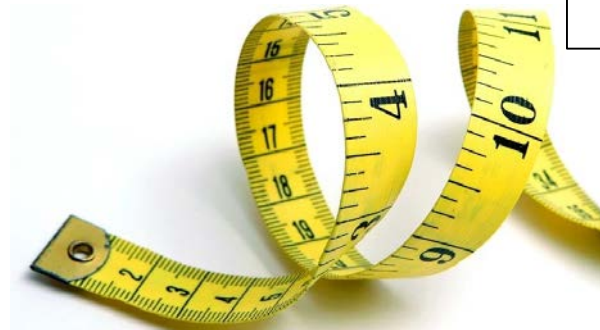
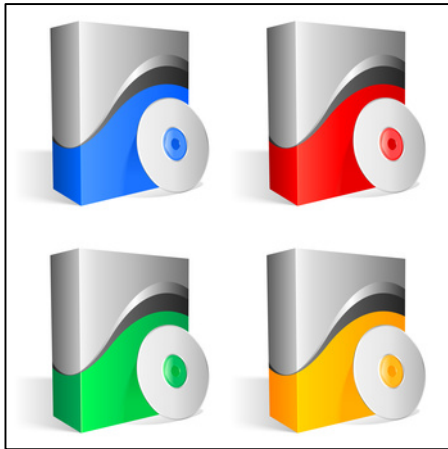
How to determine the degree?



How to improve the quality?

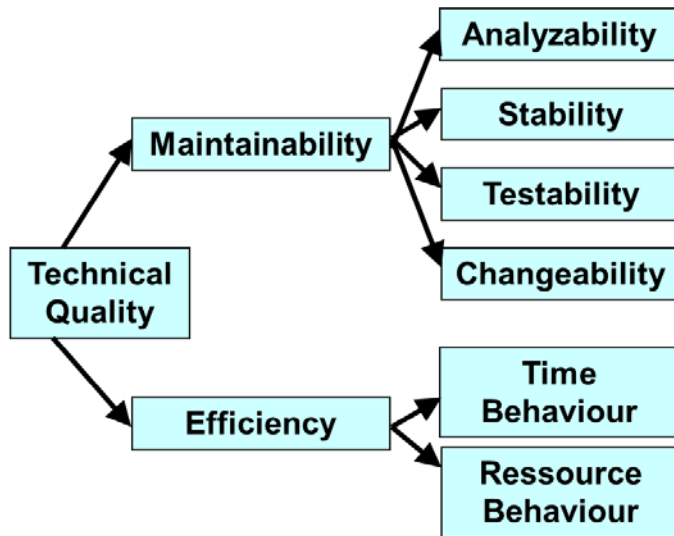
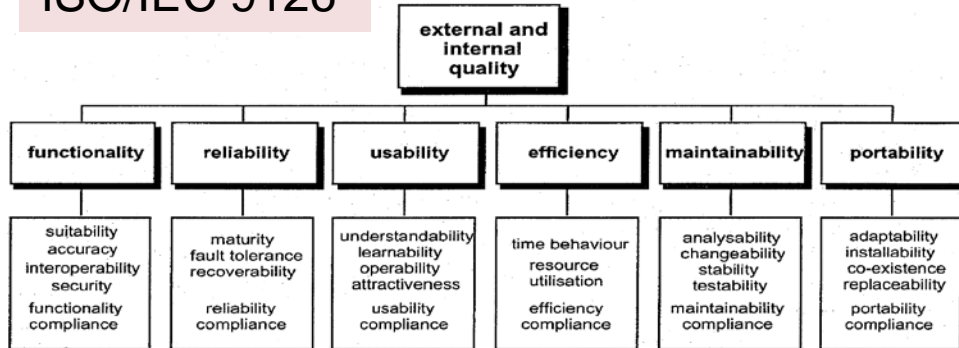
How to ensure a certain quality?

We have to measure!

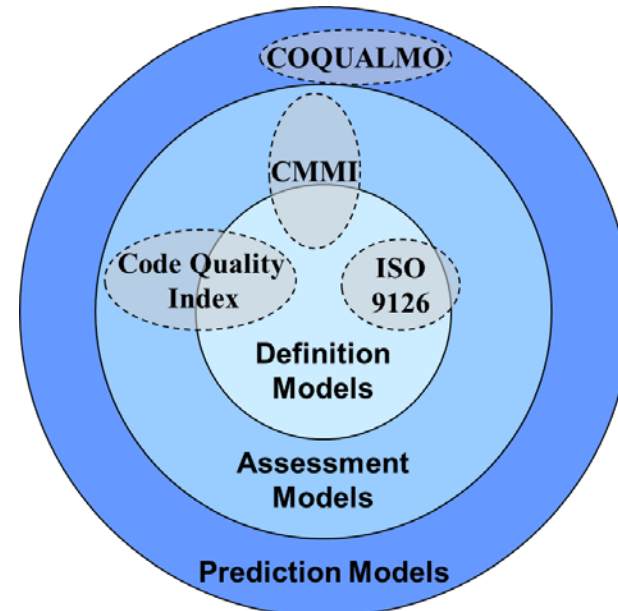
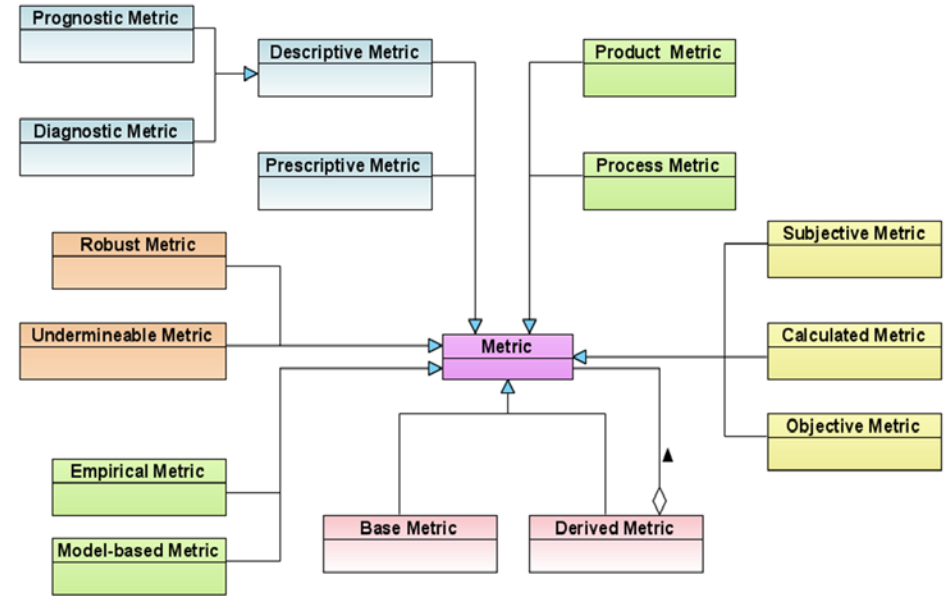


Quantitative and Qualitative Assessments

ISO/IEC 9126



Code Quality index



Very often, too **less or nothing** is measured!

Sometimes the **wrong attributes** are measured!



Metrics are not **defined completely!**

Interpretation aids **are missing!**

Dedicated tools to efficiently and effectively collect and visualize metrics are missing!





We want the workshop to be **interactive** and **interesting!**

the presentation

Presenter

- **5 min**

- presents a different paper
- introduces the topic
- **10 min**

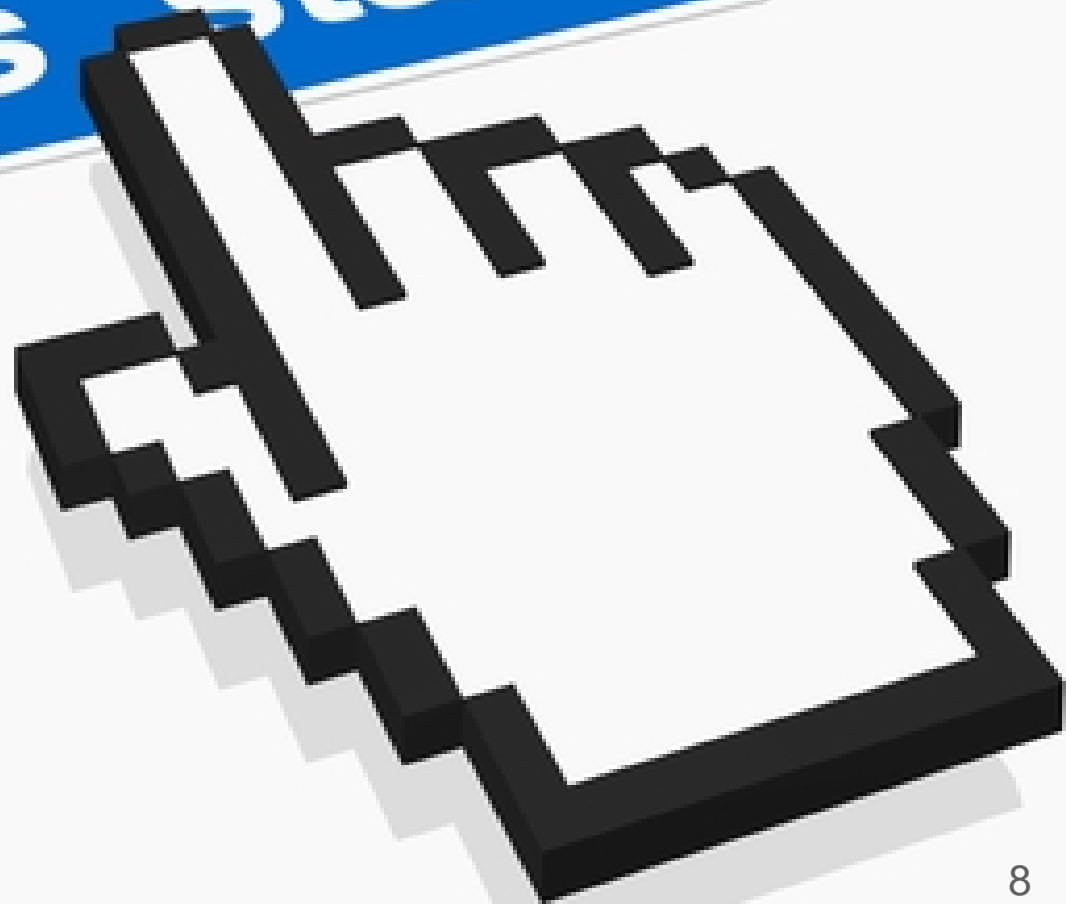
Session Chair



Audience

- listens and discusses
- **15 min**

Let's start!



Timetable

From	Until	Authors	Title	Presenter	Paper ID
9:00 AM	9:15 AM	Thanwadee Sunetnanta / Horst Lichter	Opening & Introduction to the Workshop		
Session A (Chair: Thanwadee Sunetnanta)					
9:15 AM	10:15 AM	Lei Tan and Yuqing Lin	Quality Ranking of Features in Software Product Line Engineering	Ana Dragomir	QUASOC-04
		Hirohisa Aman, Sousuke Amasaki, Takashi Sasaki and Minoru Kawahara	Empirical Analysis of Fault-Proneness in Methods by Focusing on Their Comment Lines	Matthias Vianden	QUASOC-03
10:15 AM	11:00 AM	Break			
Session B (Chair: Horst Lichter)					
11:00 AM	12:00 PM	Matthias Vianden and Horst Lichter	Lessons Learned on Systematic Metric System Development at a Large IT Service Provider	Hironori Washizaki	QUASOC-01
		Hidenori Nakai, Kiyoshi Honda, Hironori Washizaki, Yoshiaki Fukazawa, Ken Asoh, Kaz Takahashi, Kentrou Ogawa, Maki Mori, Takashi Hino, Yosuke Hayakawa, Yasuyuki Tanaka, Shinichi Yamada and Daisuke Miyazaki	Continuous Product-Focused Project Monitoring with Trend Patterns and GQM	Hirohisa Aman	QUASOC-06
12:00 PM	1:15 PM	Lunch			
Session C (Chair: Matthias Vianden)					
1:15 PM	2:45 PM	Morakot Choetikertikul, Hoa Dam, Aditya Ghose and Thanwadee Sunetnanta	A CMMI-Based Automated Risk Assessment Framework	Lei Tan	QUASOC-05
		Ana Dragomir and Horst Lichter	Towards an Architecture Quality Index for the Behavior of Software Systems	Morakot Choetikertikul	QUASOC-08
2:45 PM	3:30 PM	Break			
Summary & Closing					
3:30 PM	4:00 PM	All speakers	Summary		
		Thanwadee Sunetnanta / Horst Lichter	Closing		