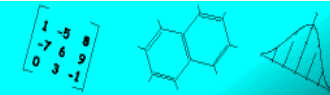
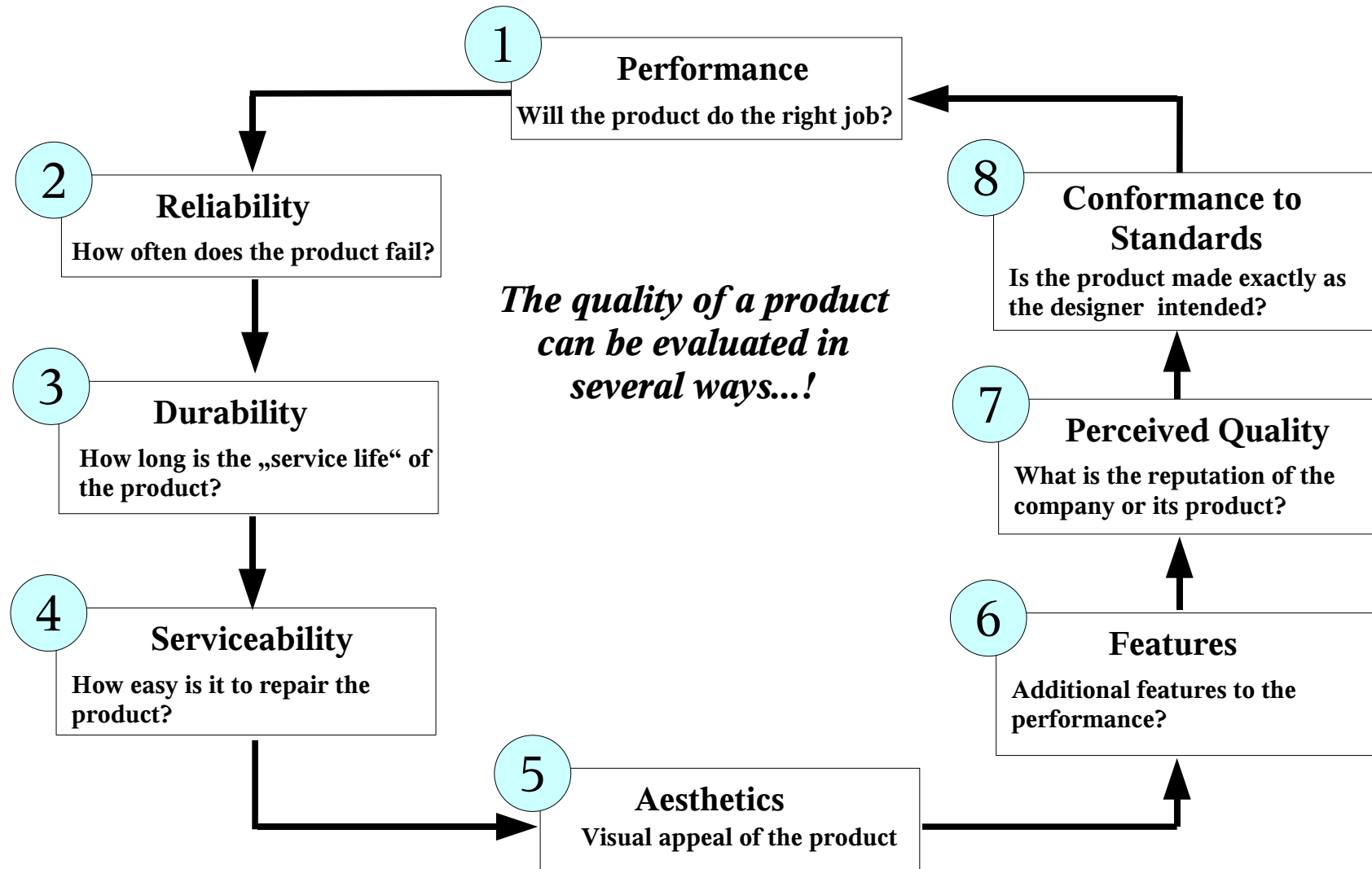


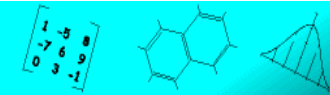
Statistical Quality Control with SPC

Motivation for using SPC



Introduction: Dimension of Quality „Eight components of quality“ (Garvik 1987)





Introduction: Quality Definition

Quality means fitness for use

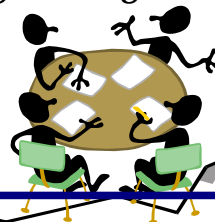
Quality of design
Quality of conformance

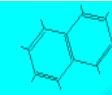
Quality is inversely proportional to variability

If variability in the important characteristics of a product, the quality of the product increases!

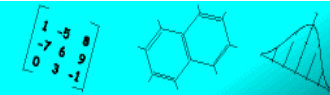
Quality improvement is the reduction of variability on processes and products!

This can be reached with a team of specialists in development, manufacturing, quality engineering and other disciplines!
„concurrent engineering“

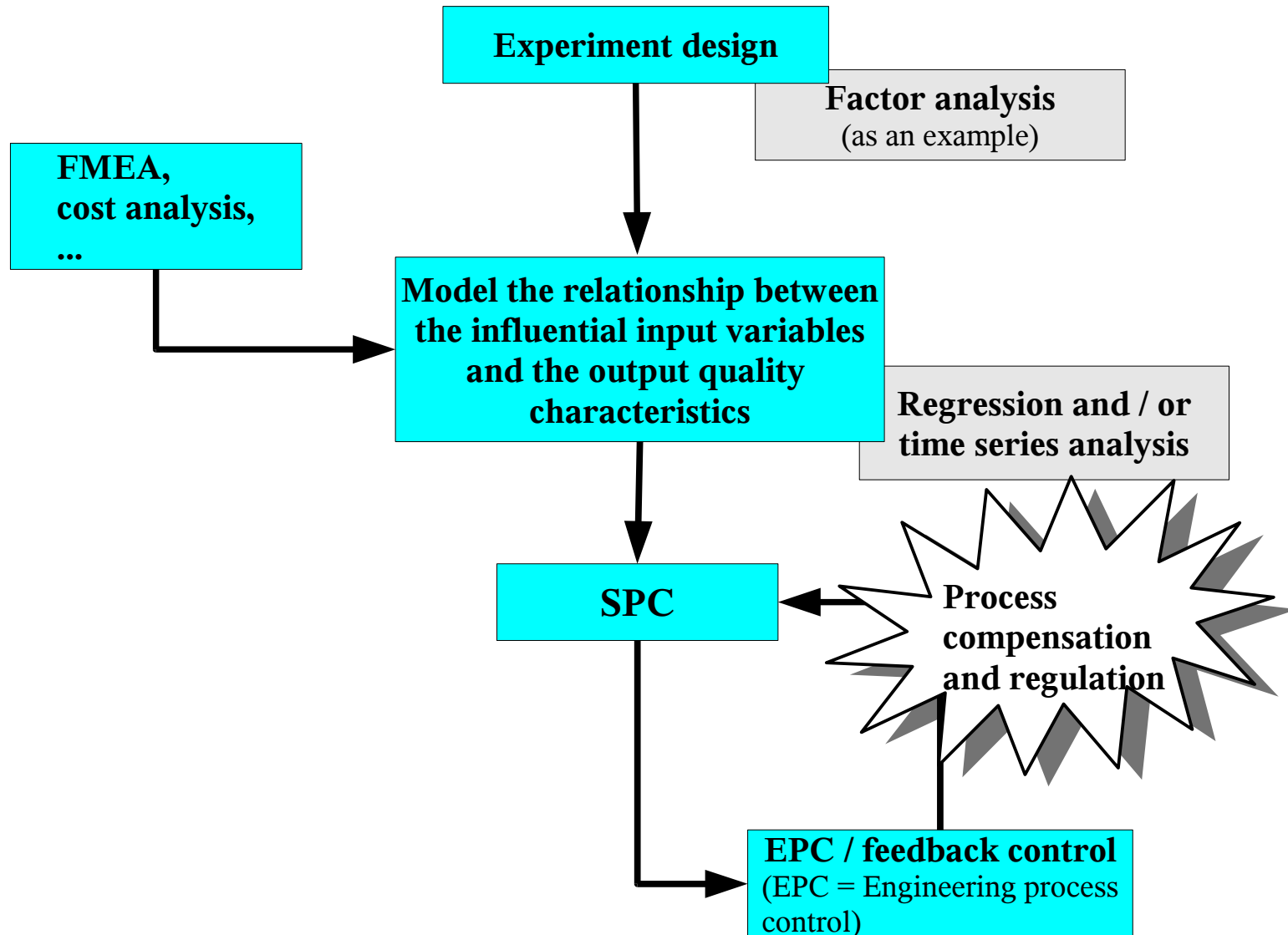




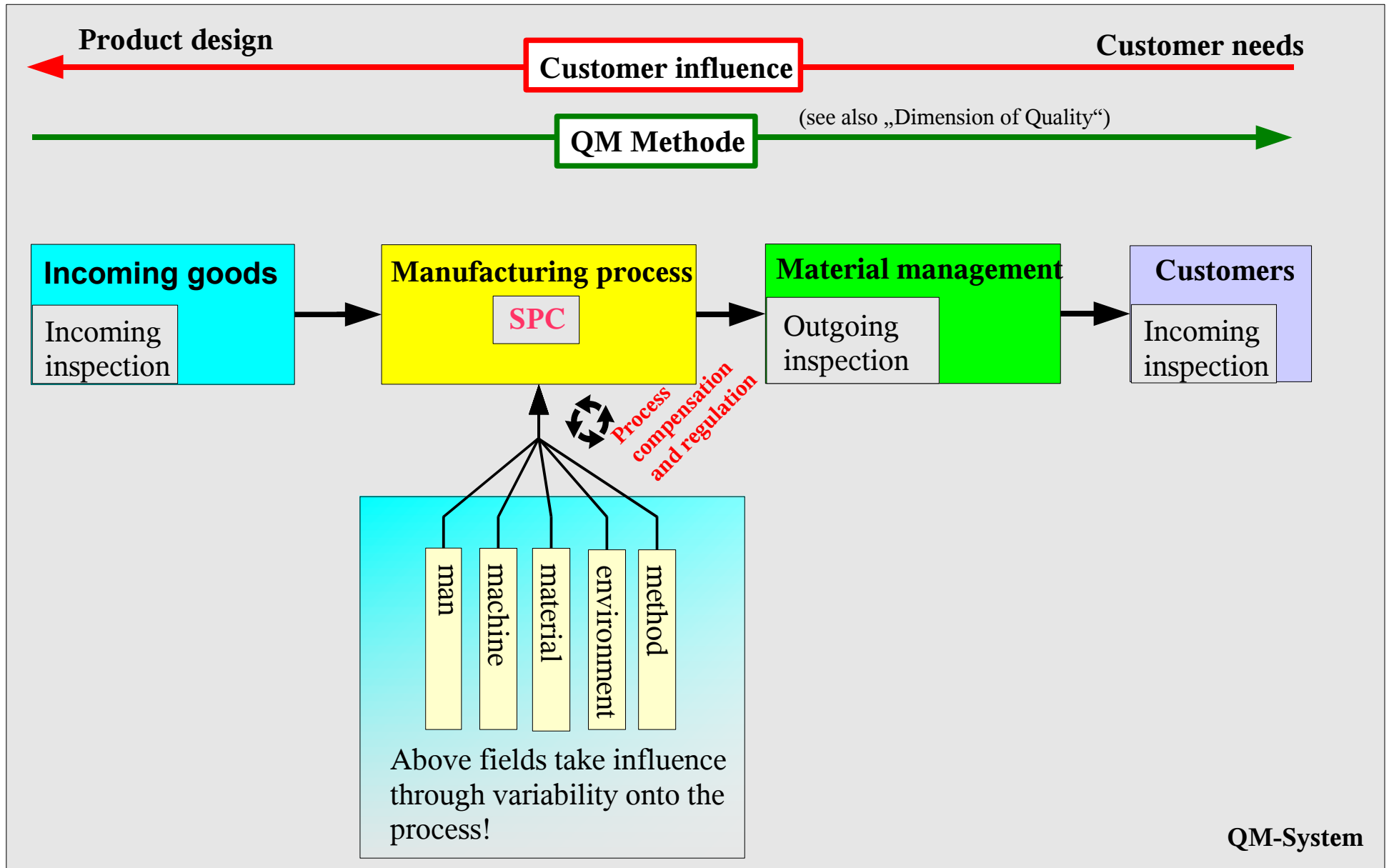
One way to reduce the variability is to use statistical process control (SPC)!



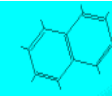
The way to statistical process control, SPC



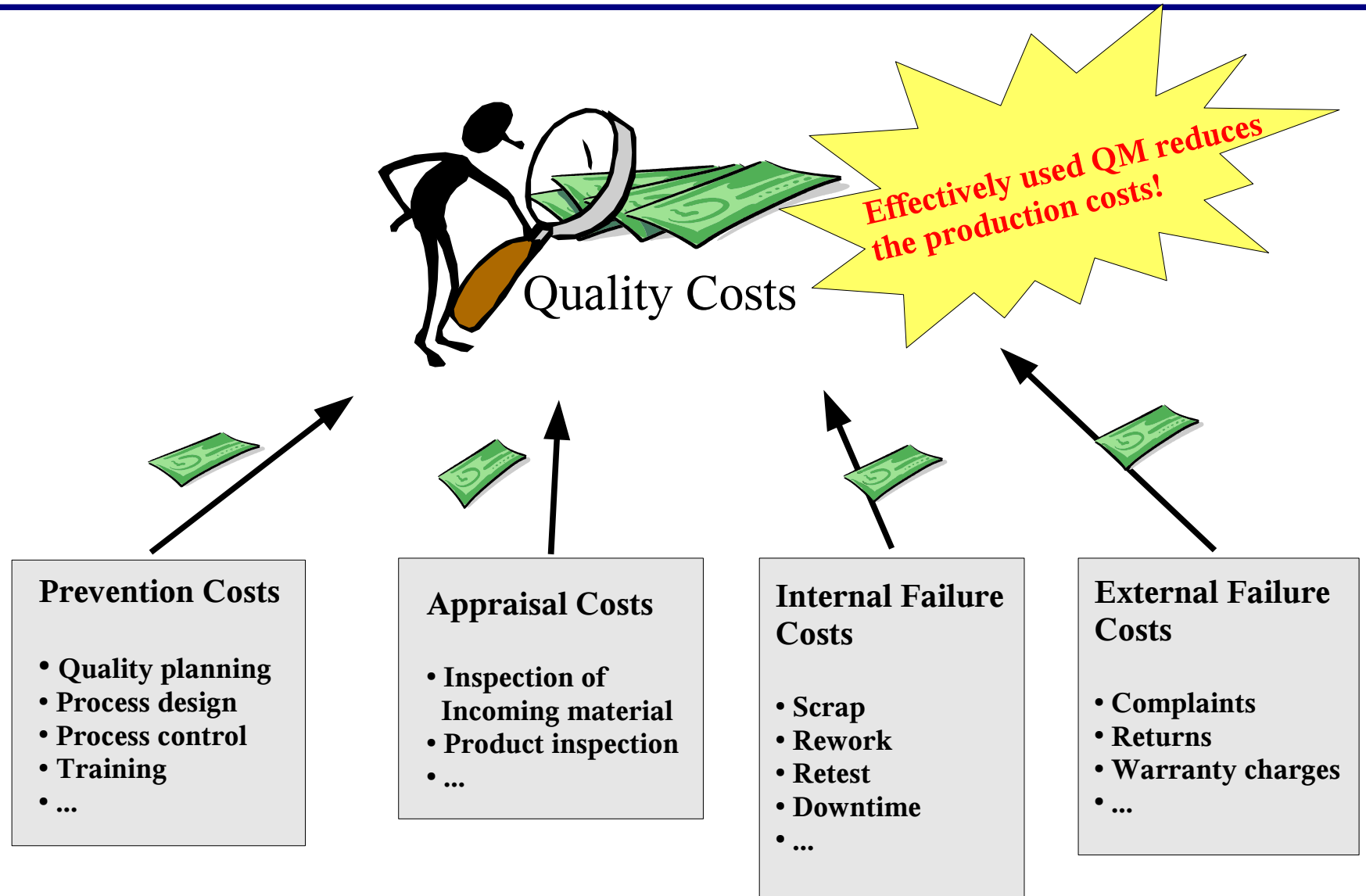
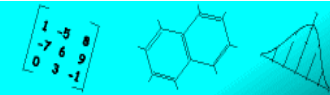
Possible SPC integration in a manufacturing process as a overview

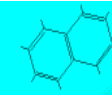


QM-System



**Effective quality improvement be instrumental in
increasing productivity and reducing cost!**





Bibliography

**Introduction to Statistical Quality Control, Douglas C. Montgomery, 5e
Wiley**

**Prozessfähigkeitsmessung für die industrielle Praxis, Horst Rinne und
Hans-Joachim Mittag, Hanser**

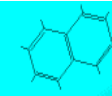
As outline:

Control chart:

<http://www.faes.de/Basis/Basis-Statistik/Basis-Statistik-Regelkarten/basis-statistik-regelkarten.html>

SPC:

<http://www.faes.de/Basis/Basis-Lexikon/Basis-Lexikon-Prozessfaehigkei/basis-lexikon-prozessfaehigkei.html>



Thanks for your friendly attention!