02: A Conceptual Model of Software development

Software Project Management
Philippe Kruchten

Inc. 2014

Copyright © 2005-14 by KESL



fable | fabəl (noun)

- a short story, typically with animals as characters, conveying a moral.
- a story, typically a supernatural one incorporating elements of myth and legend.
- myth and legend : the unnatural monsters of fable.
- a false statement or belief.

Jan. 201

Copyright © 2005-14 by KESL



Once upon a time, a frog and an octopus,
Met on a software project, that was deep in the bush.
The frog said, "you know, all these projects are the same;
Over time we fill with our work the gap that we find
Between the burgeoning product, and our dreamed intent."

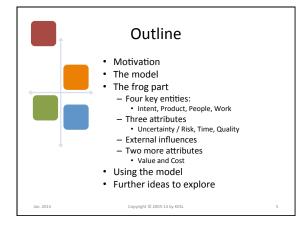
Copyright © 2005-14 by KESL



"Oh, no" objected the octopus, "they cannot be the same; They come in all forms or shapes and sizes and colours, And we cannot use the same tools and techniques Like in the cobbler shop, one size does not fit all."

Jan. 2014

Copyright © 2005-14 by KESL



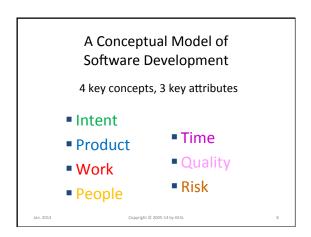
"The purpose of science is not to analyze or describe but to make useful models of the world. A model is useful if it allows us to get use out of it."

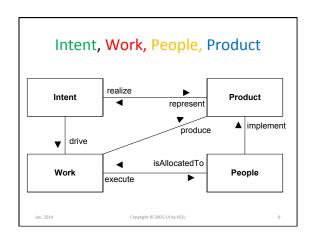
Edward de Bono

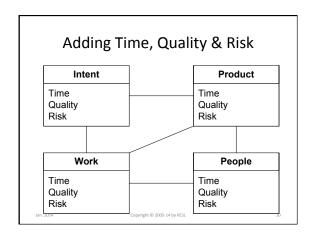
Jan. 2014

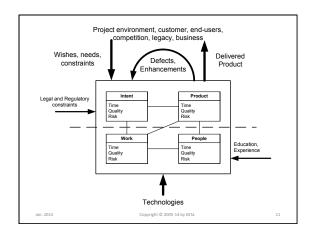
Copyright © 2005-14 by KESL

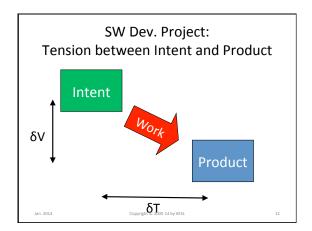
Motivation • Software project management can turn into a long series of recipes • Vast spectrum of possible projects • Two models: — What is common across all software projects (frog) — What are the factors of variability (octopus)

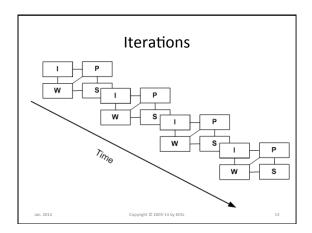


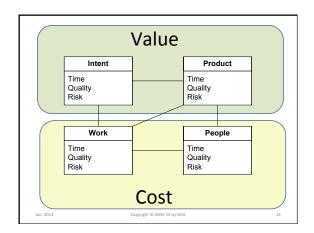


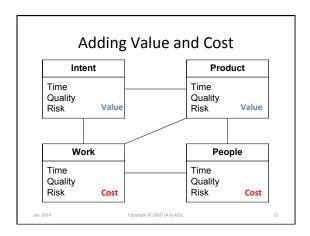


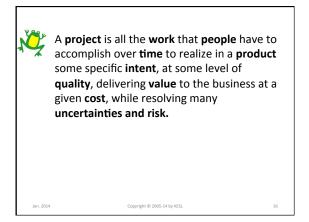












Exercise: which concept is at play?

- If Christine were to resign today, we would be in serious trouble
- The customer want us to implement another use case, regarding costing with discount.
- I know this was not planned, but we will need to move the server farm out of the basement.
- Is our documentation compliant to IEEE 1540?
- When (in which release) will we have a complete implementation of the data entry GUI?
- Should we hire a senior tester, or a beginner that we will train?
- We have over 27 "show stopper" defects in Bugzilla.
- We have to schedule a retrospective for each major release.

