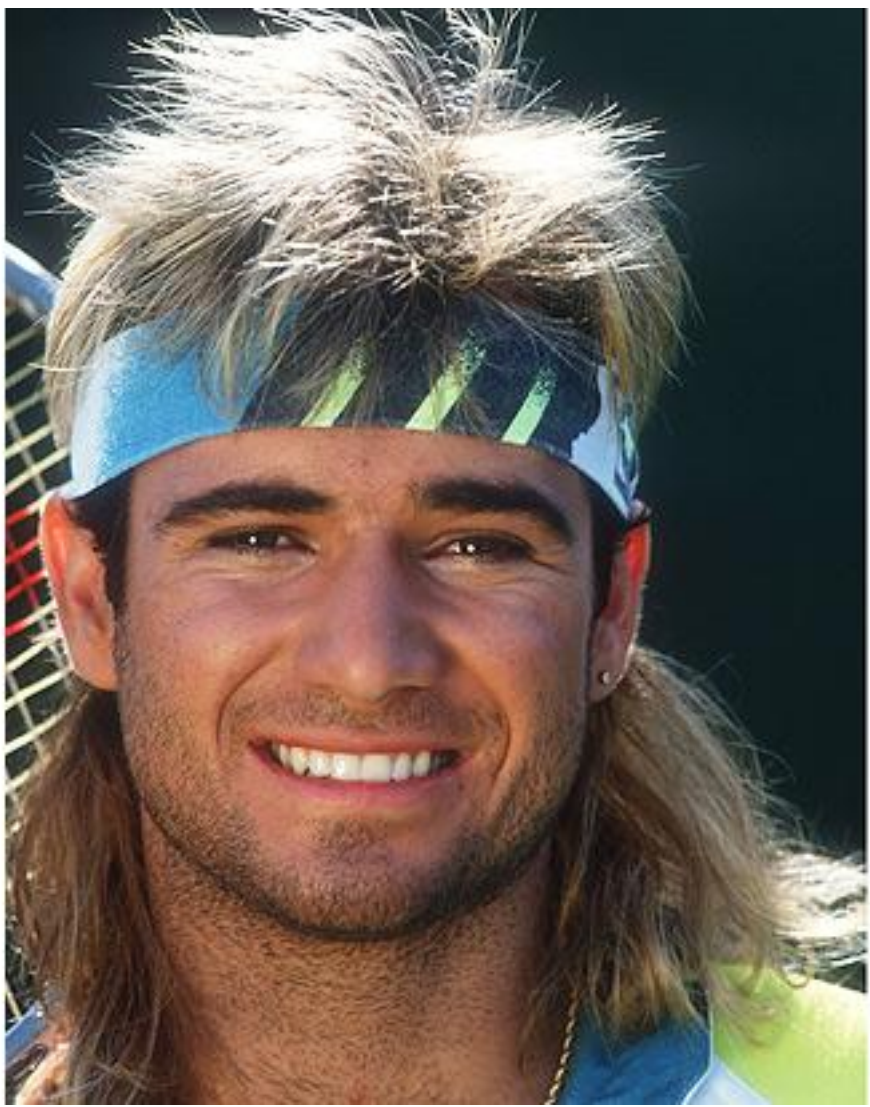


Securing the SDLC for teh Win

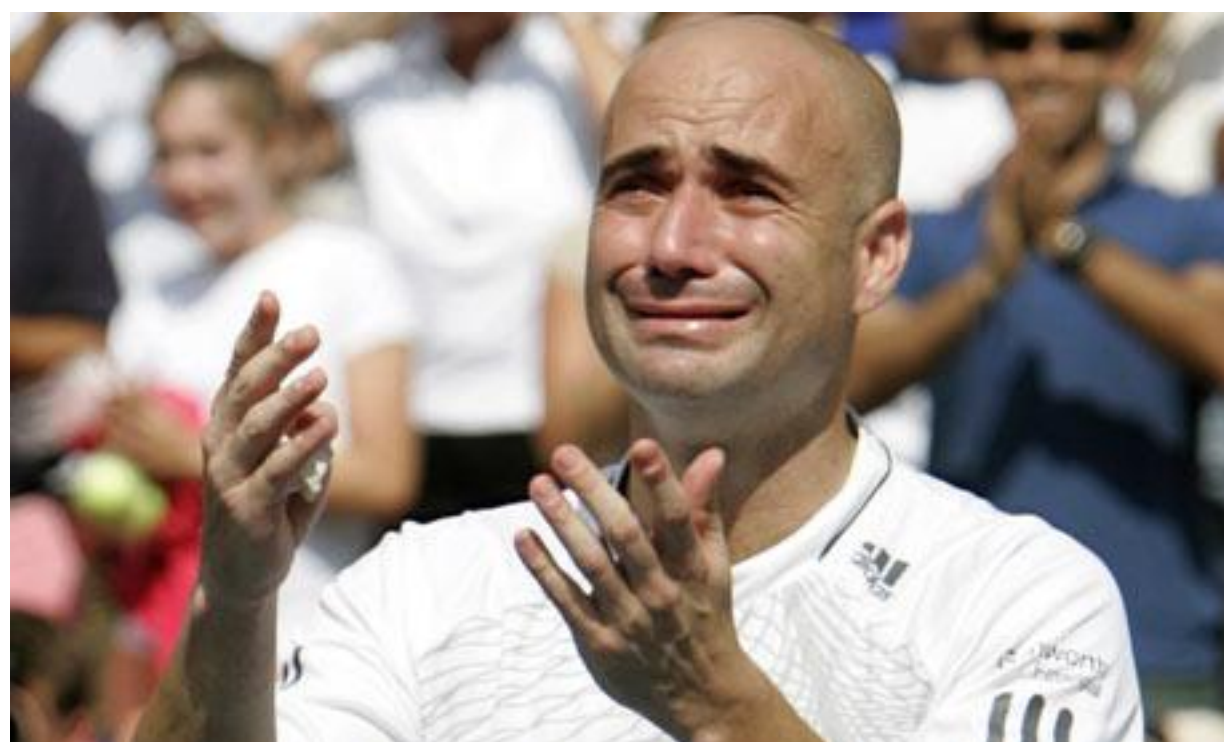
John Melton
Will Stranathan

Faith/Confidence

**“Kids, you tried your best and
you failed miserably. The
lesson is, never try.”
- Homer Simpson**









Maturity

“Maturity is achieved
when a person accepts
life as full of tension.” -
Joshua Loth Liebman

“Youth is when you blame all your troubles on your parents; maturity is when you learn that everything is the fault of the younger generation” -
Unknown

Sidebar:

Maturity vs. Creativity

"Everything should be
made as simple as
possible, but not simpler." -
Albert Einstein

"What has been will be again,
what has been done will be done
again;
there is nothing new under the
sun."

- The Bible, Ecclesiastes 1:9

“I would rather have my
ignorance than another
man’s knowledge, because I
have so much more of it.” -

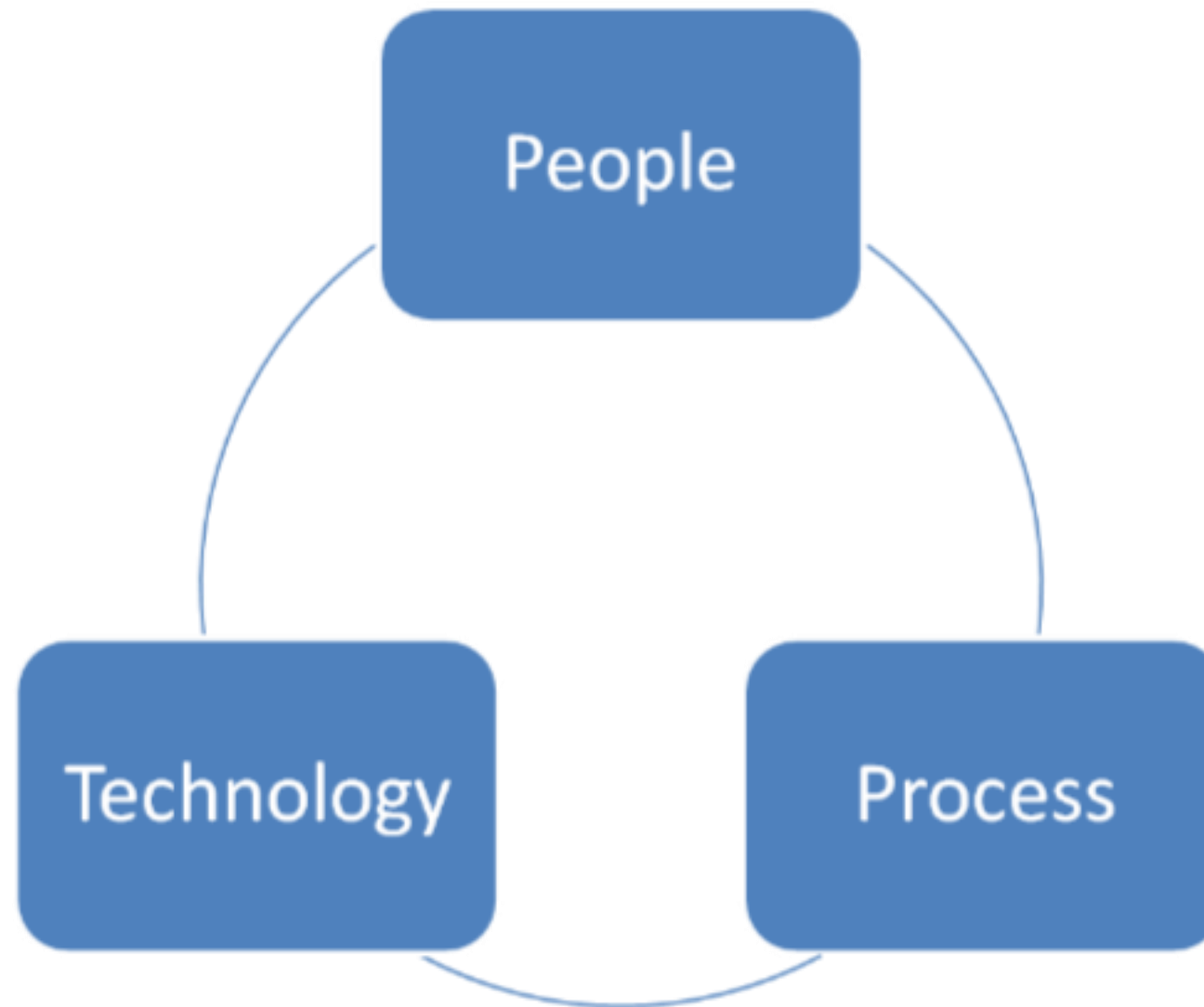
Mark Twain

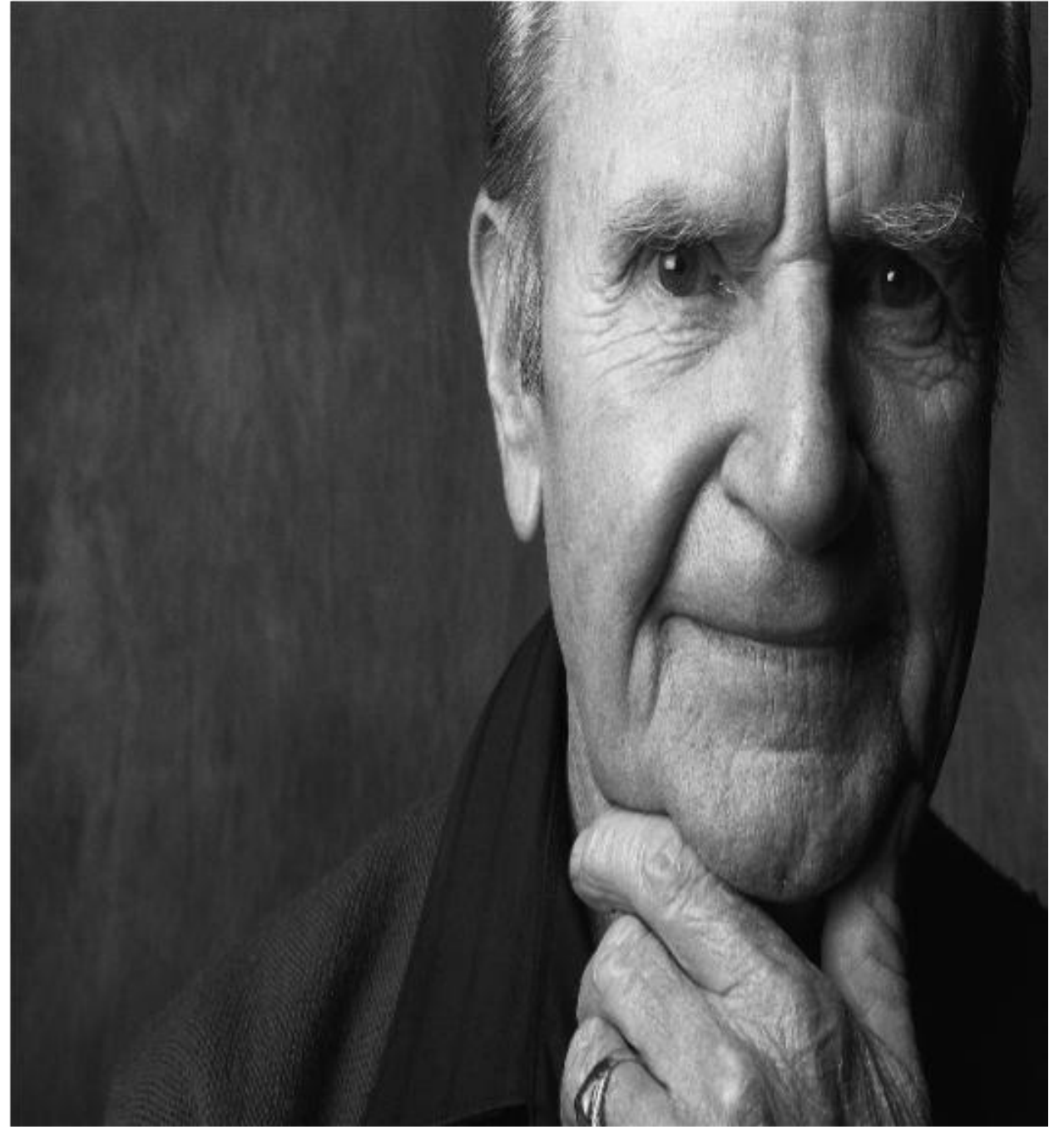
**“Imitation precedes
originality.” - Mary
Oliver**

- Adopt
- Adapt
- Adept

Maturity

Creating Maturity







Rapid

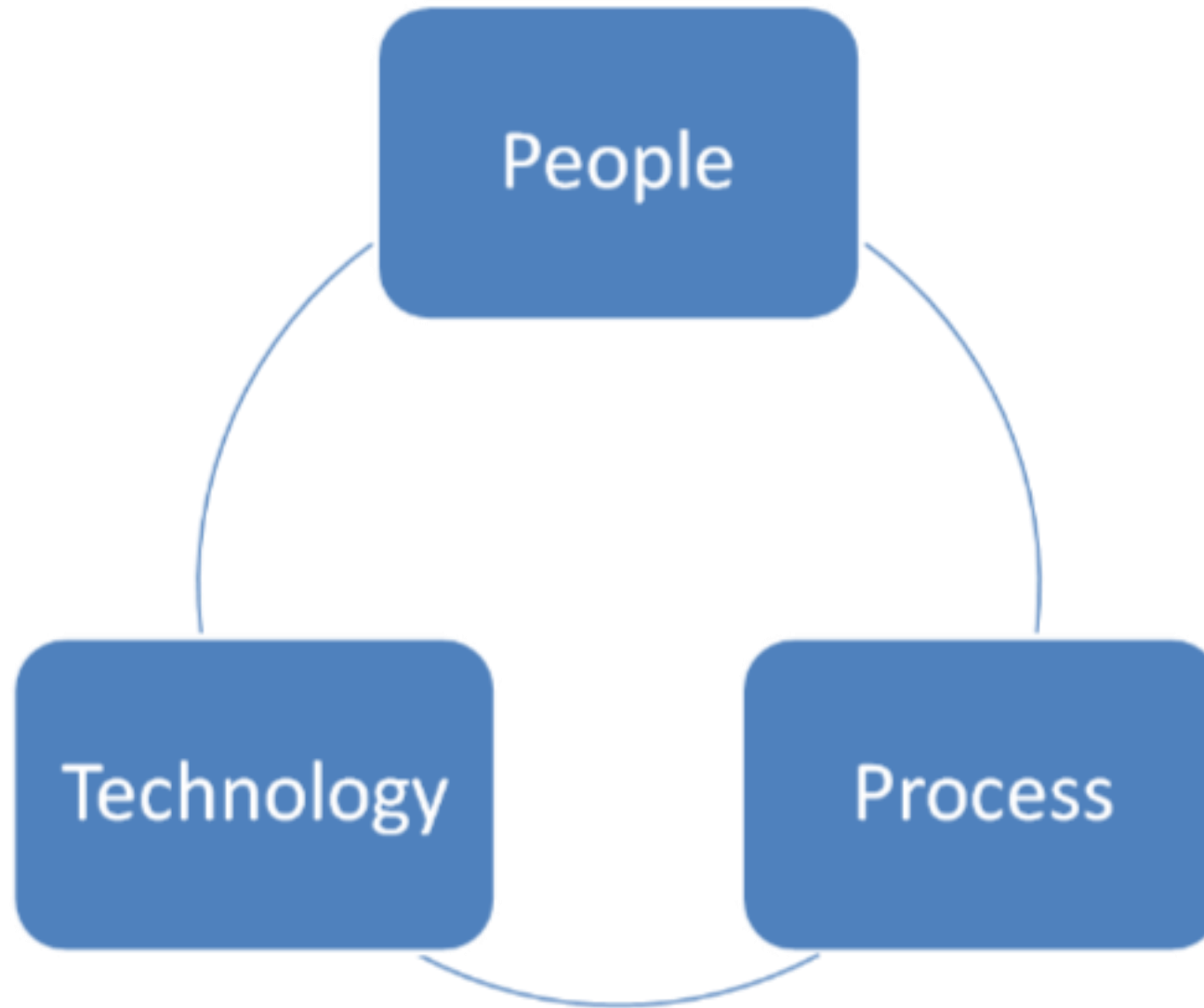
A fatal exception BE has occurred at 0020:00011E36 in 000 000(01) +
00010E36. The current application will be terminated.

- Press any key to terminate the current application.
- Press CTRL+ALT+DEL again to restart your computer. You will
lose any unsaved information in all applications.

Press any key to continue _



People



A Few Ideas

- Books
- Conferences
- Bug of the Month
- Lunch & Learns
- Tie training objectives to performance reviews
- Degree/cert reimbursement
- Internal dev cert program with org-specific info
- Improve hiring process

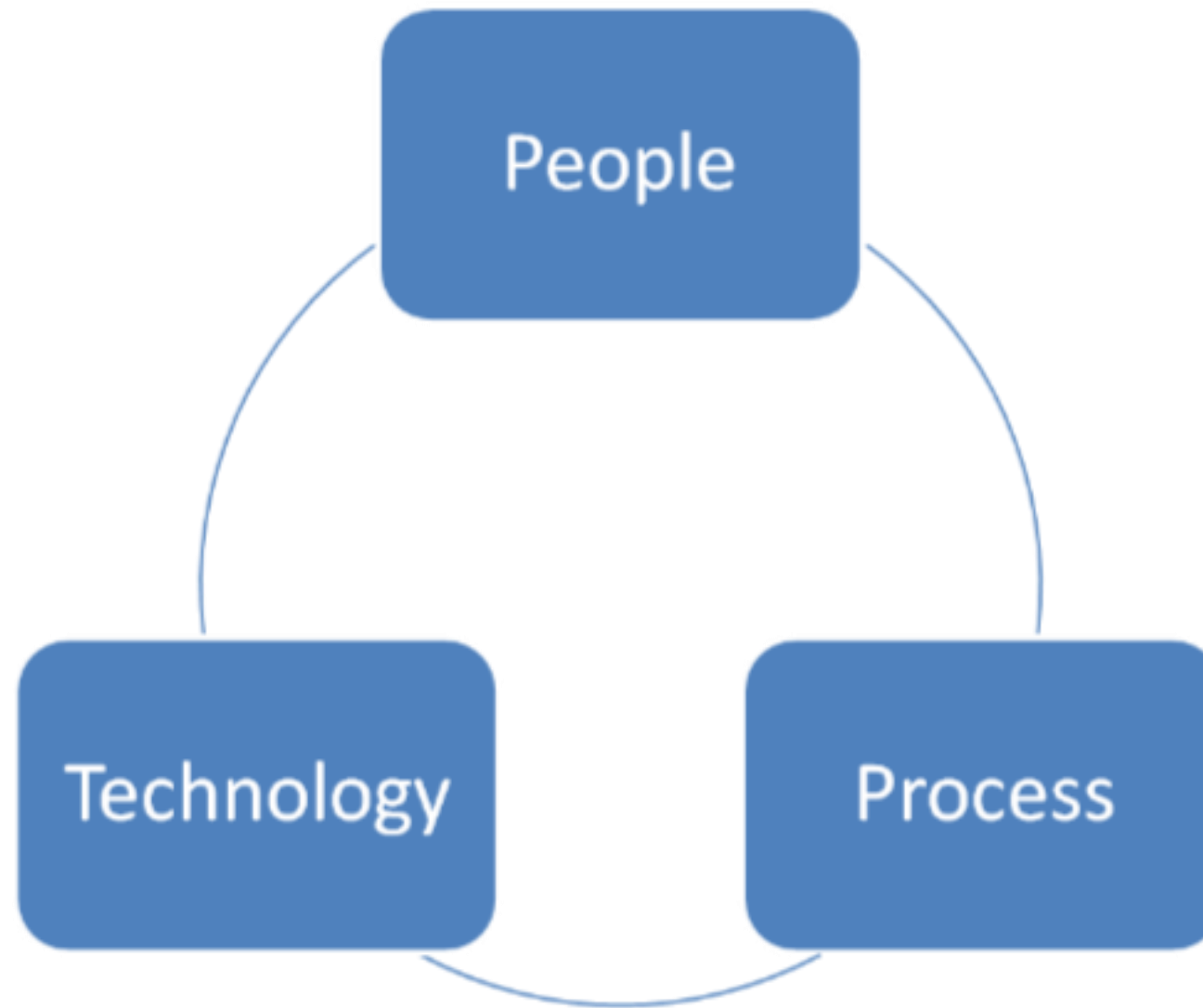
Lunch & Learns

Bug of the Month

Sidebar:
Security Echo
Chamber

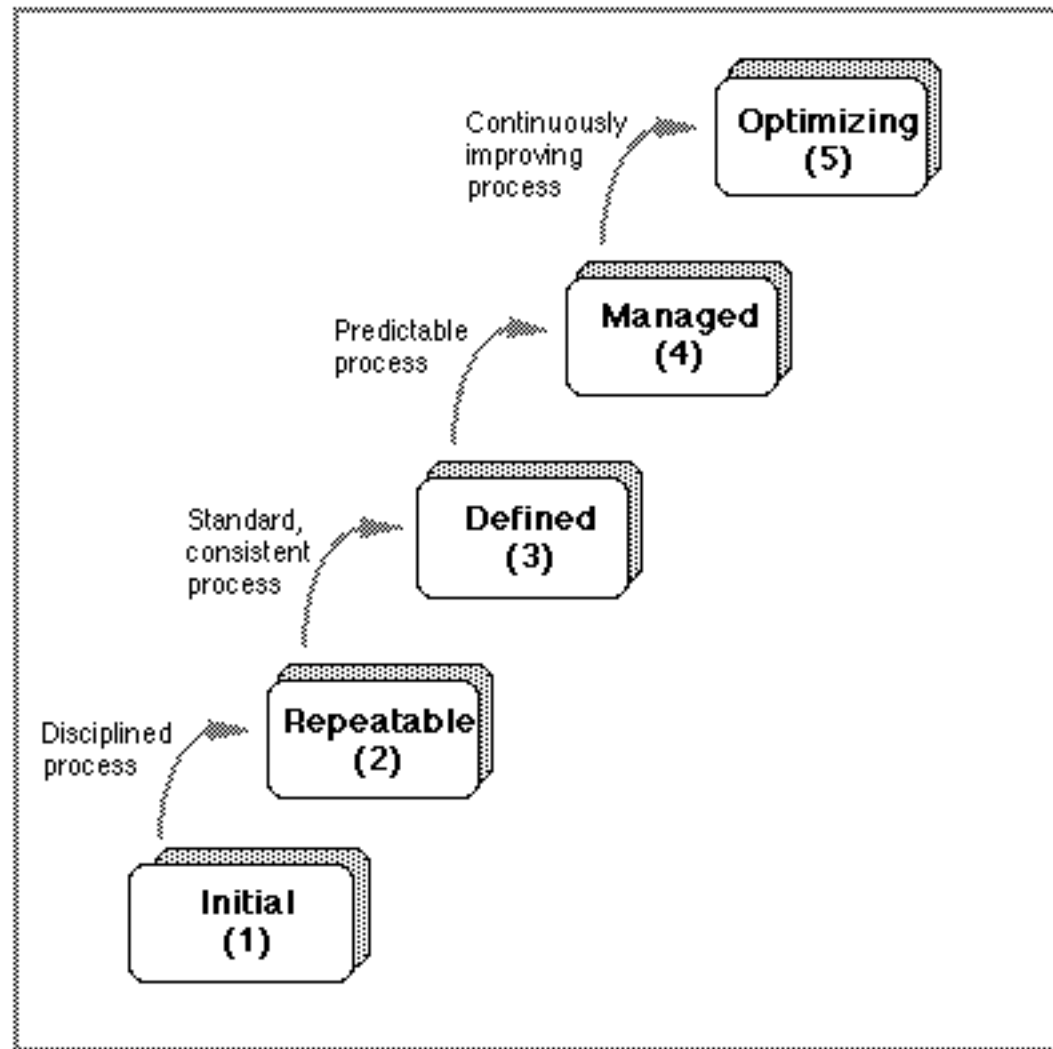
“To me, security is important. But it’s no [more or less] important than everything *else* that is also important!” - Linus Torvalds

Process



Process Maturity

Example: CMM(i)



A Few Ideas

- Touchpoints in SDLC
- Thread modeling
- Code / design / architecture reviews
- Treat internal and external code as equally untrusted
- Framework evaluation
- Defined/followed policies for [patching, log review, incident response, remediation, ...]
-

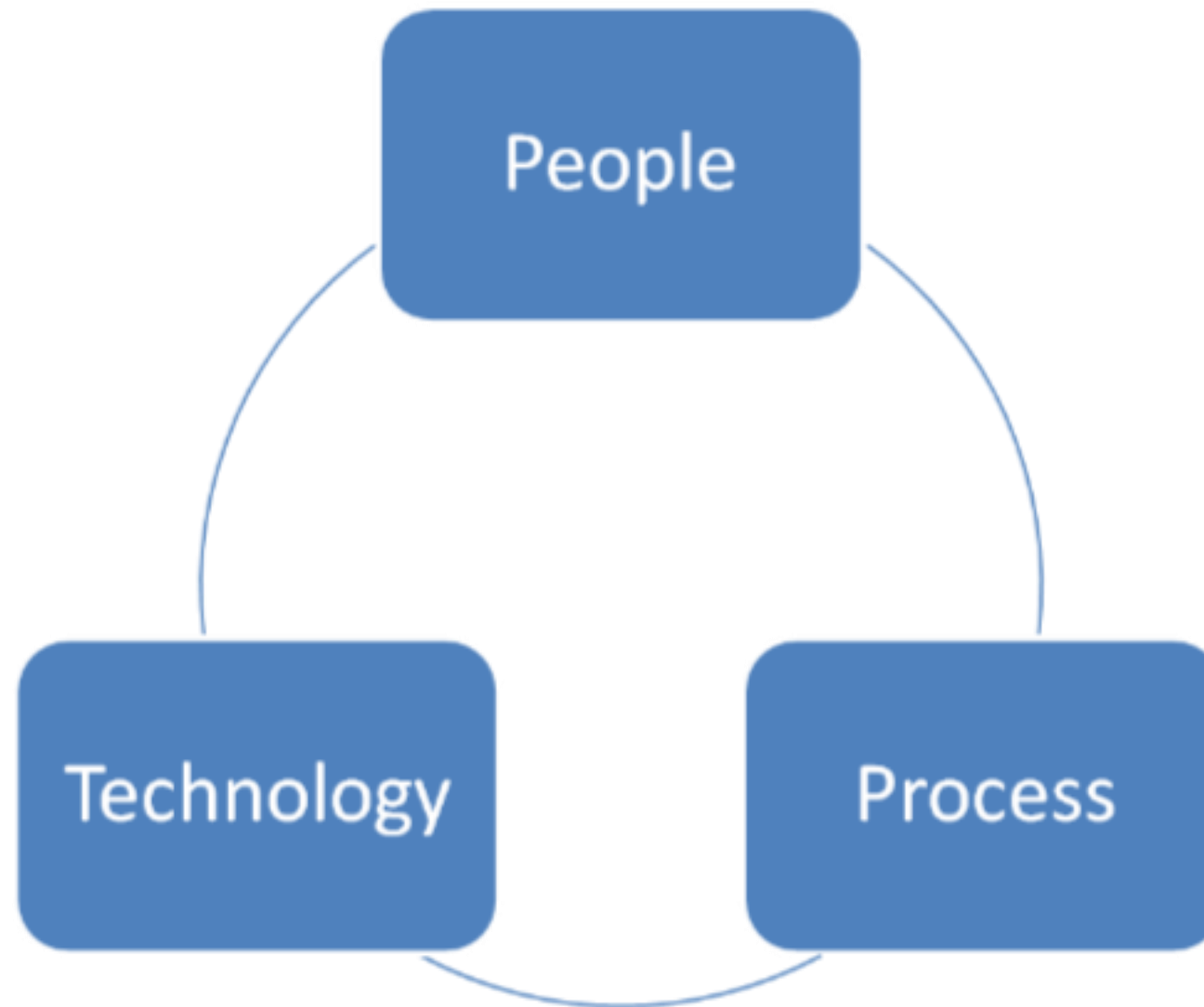
Framework Evaluation

Struts 1, Struts 2, Spring MVC

Trend Analysis

Simple vulnerability metrics

Technology



A Few Ideas

- Static/dynamic testing
- Common security framework (like ESAPI) for organization (and make devs use it)
- Safe(r) languages
- Safe(r) frameworks
- Secure code snippets
- Utilize unit / integration / functional testing to test for security
- Build proprietary tools when necessary

Framework Selection

Struts vs. Servlet/JSP Study

Technology Selection

Twitter / Ruby on Rails

"If you're doing something
clever, you're probably doing it
wrong"

- Ross Snyder of Etsy

Safe Code Examples / Frameworks

Snippets
ESAPI

Maturity

“Trust everybody, but cut the cards.”

- Unknown

References

- Rugged Software Initiative
<http://ruggedsoftware.org>
- BSIMM
<http://bsimm.com/>
- OWASP
<http://owasp.org/>
- OpenSAMM
<http://opensamm.org>
- Microsoft SDL
<http://www.microsoft.com/security/sdl/default.aspx>