



West Coast innovation hubs and AGL strategy

Pete Popov

Konsulko Group, CEO, President





1 Who am I /私は誰?

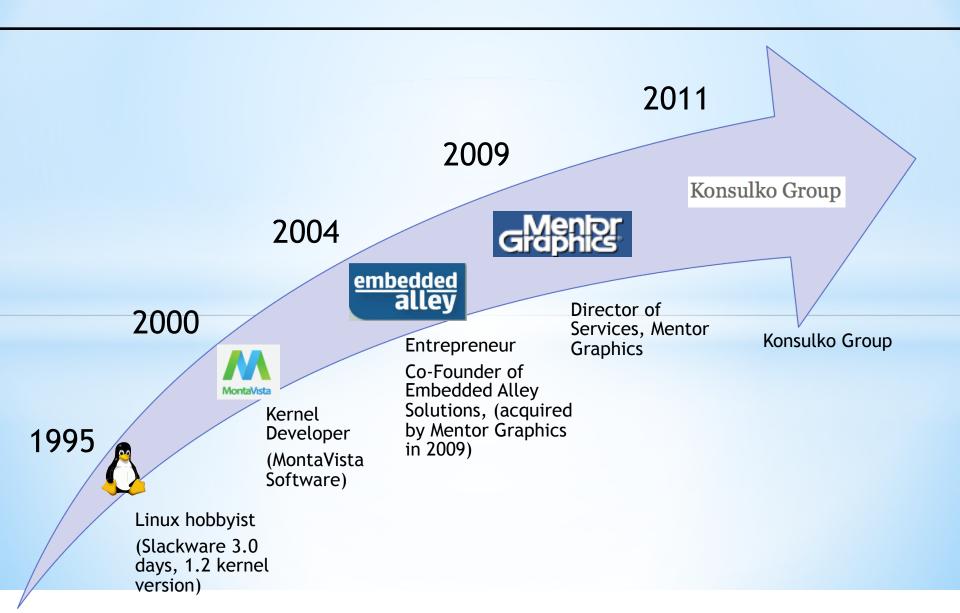
2 Automotive Software Strategy and AGL

West Coast Software Technology Hubs

4 Conclusion







Paradigm Shift





"Today 90 percent of all innovations in vehicles have to do with electronics, either directly or indirectly."

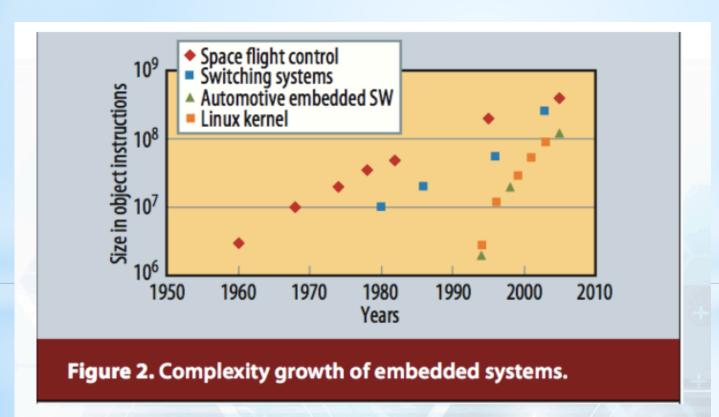
Rudi Hudi, Audi AG



Growing Software Complexity







10x every ~7 years

Dr Jan Bosch Professor of Software Engineering, Chalmers University of Technology, Gothenburg, Sweden

What is your software strategy?





Open Source Software is not a Strategy



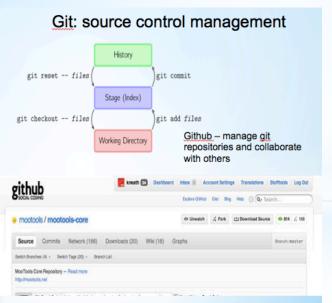


Linux [OSS] is becoming the fabric of computing



- · Irc chat rooms
- Mailing lists





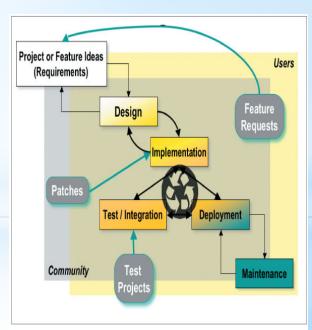


Figure 2: Open source development model

(SOURCE: BILL WEINBERG, OPEN SOURCE DEVELOPMENT LABS, 2008)





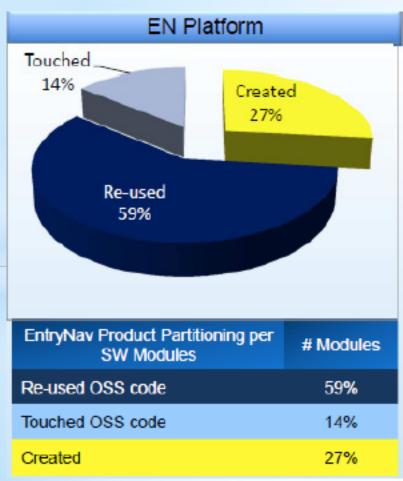




Software Reuse: BMW case study







SC

Source: BMW case study, presented by Graham Smethurst

Without an understanding of the OSS development and collaboration model, you will never achieve meaningful software reuse.





Open Source is Not a Differentiator

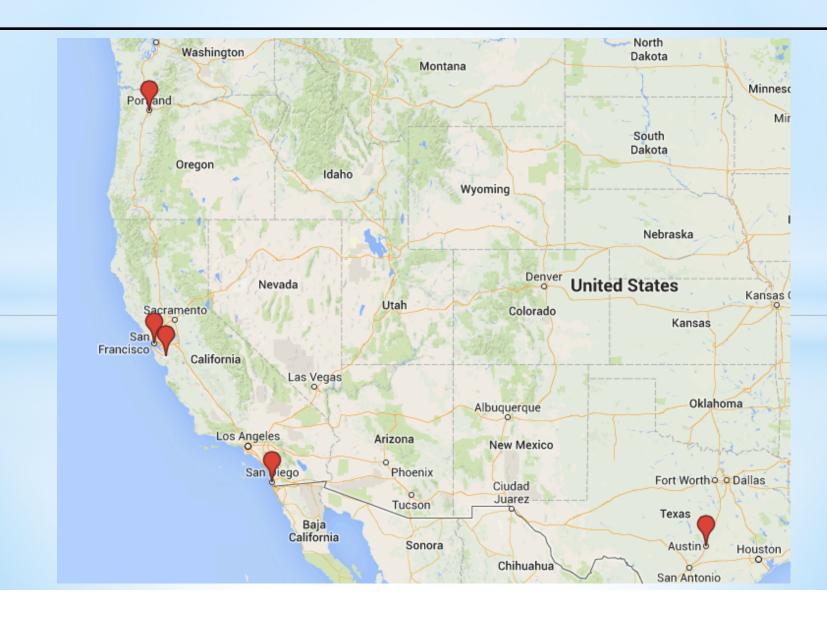
It's Acceleration to Differentiation

Source: Presentation by IBM Global Services

West Coast Innovation Hubs







Sample Startups Numbers





Silicon Valley Startups

11,433 companies, \$4.7M avg valuation

San Francisco Startups (included in SV)

6,333 companies, \$4.7M avg valuation

Austin Startups

1,139 companies, \$3.9M avg valuation

San Diego Startups

783 companies, \$4.1M avg valuation

Disruptive Innovators







San Francisco based Uber.

Disruptive innovator in mobility.







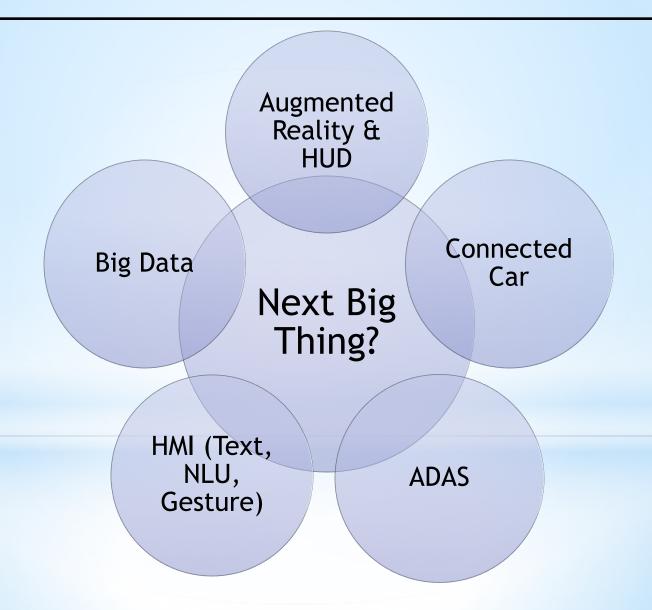




San Francisco based Airbnb.com. Hotel/rental industry disruption.







Multi-modal HMI



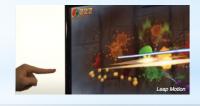




- ☐ Gesture recognition
- □ Text prediction / handwriting
- □ NLU
- ☐ Touch
- ... and more









Fleksy





The connected car experience





Home & Office convergence in the car



- ☐ Extension to the office
- Cloud streaming
- Connection to home automation



Cloud meetings



HD video conferencing





Home Automation







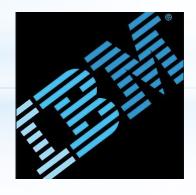
Connected Car / Big Data



Cloud-based analytics for Big Data



Platfora processes raw data in Hadoop and gives Business Analysts visual self-service Big Data Analytics to go from events, actions, behaviors to business facts



G CONTINULITY

Java-based, integrated data and application framework that layers on top of Apache Hadoop, HBase, and other Hadoop ecosystem components. It surfaces capabilities of the infrastructure through simple Java and REST APIs.



The company offers a 100% open source and enterprise-ready distribution of Apache Hadoop with Cloudera Manager.



Venture Capital Companies





- http://500.co
- http://a16z.com
- http://www.accel.com
- http://www.artisventures.com
- http://www.augustcap.com
- http://www.austinventures.com
- http://www.azurecap.com
- http://www.battery.com
- http://www.bvp.com
- http://www.canaan.com
- http://www.crv.com
- http://www.crosslinkcapital.com
- https://www.dagventures.com
- http://www.dcm.com
- http://www.dfj.com
- http://www.drapervc.com
- http://firstround.com

- http://www.foundationcapital.com
- http://www.greylock.com
- http://www.hcp.com
- http://i5invest.com
- http://www.interwest.com
- http://www.ivp.com
- http://www.jafco.com
- http://www.kpcb.com
- http://lsvp.com
- http://www.matrixpartners.com
- http://www.mayfield.com
- http://www.mdv.com
- http://www.menloventures.com
- http://www.meritechcapital.com
- http://www.nvp.com
- http://www.pavp.com
- http://www.redpoint.com
- http://www.shv.com/portfolio
- https://www.sequoiacap.com
- http://www.tcv.com/portfolio/
- http://www.usvp.com

Corporate VC Funds





- http://www.appliedmaterials.com/about/ventures
- http://www.gv.com
- http://www.intelcapital.com
- http://www.digitalconceptscenter.com

Incubators (Top 10 to Watch, Inc Manazine)





- http://www.techstars.com
- http://ycombinator.com
- http://summer.hcp.com
- http://www.dreamitventures.com
- http://www.launchboxdigital.com
- http://flashpoint.gatech.edu
- http://capitalfactory.com
- http://nep.benfranklin.org/incubator-network/benfranklin-techventures/
- http://www2.cleantechopen.org
- http://researchpark.illinois.edu/enterpriseworks

You need a presence





OEMs & Tier1s with innovation centers on the West Coast (not a complete list)



BOSCH







DENSO













NISSAN MOTOR CORPORATION













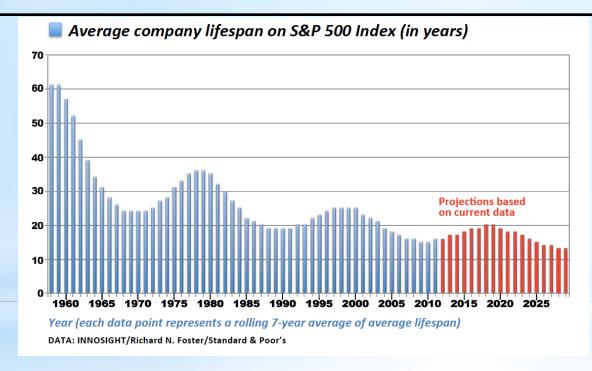




The argument for building capabilities







- ☐ Jim Collins (Built to last): Companies last, on average, 30 years on the Fortune 500 list. And that time period is decreasing.
- ☐ Nearly 2000 companies have appeared on the Fortune500 list and most are gone from it.
- Main cause: Companies fail to innovate and to build new core capabilities.

Conclusion





- ☐ Building new core capabilities in software must be part of the strategy of an automotive company
- ☐ You need a presence where the innovation happens☐ Eighty percent of success is showing up
- ☐ You need to do something real at your new innovation center
- You need a platform for
 - ☐ Collaboration with OSS community and 3rd party companies with proprietary technologies
 - Building software capabilities