DevOps: You should be Iron Man, not a Robot

Luke Kanies
Founder and CEO, Puppet Labs
@puppetmasterd
Puppet was born at LISA
DevOps

http://evbdn.eventbrite.com/s3-s3/eventlogos/2231077/1213482559-1.png
Development
Dev becoming Ops
Ops
becoming
Dev
Improving Operations
Cultural Change

http://eslandeducation.wikispaces.com/file/view/culture.jpg/232707598/culture.jpg
Improving Sysadmins
Minimal Process

http://switchboard.nrdc.org/blogs/ddoniger/the_phony_train_wreck_-_part_i.html
Better tools

http://www.gadgetrivia.com/7792-best_multi_tool
Collaboration

Automation
Knowledge Workers

http://photo.outlookindia.com/images/gallery/20101220/call_centre_20110110.jpg
Automation is coming

http://t2.gstatic.com/images?q=tbn:ANd9GcRSjOE5BJr_A2IvmjZk1tCj7LU_qENIb58MuGqQWxU2DGqETHz-
Scale
Agility
Criticality
Financial trading isn’t automated
You Choose

http://t3.gstatic.com/images?q=tbn:ANd9GcQWRuZpmFkyvK2_5Gx-Il5yrqiBC-HqbRzzSIMMBmoW07Q1KuS
Mechanical vs. AI
Your Special Power?
ls -hjv.wxwz
Understanding and Deciding
Old News
Slow Change
They haven’t waited
We can’t
Agile Development
2001: Agile Manifesto
Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan
Why agile?
Dev: On time, under budget, wrong product

http://diykenya.files.wordpress.com/2010/08/tire_swing.gif

As proposed by the project sponsor.
As specified in the project request.
As designed by the senior architect.

As produced by the engineers.
As installed at the user’s site.
What the customer really wanted.

http://diykenya.files.wordpress.com/2010/08/tire_swing.gif
Ops: Secure, stable, 18 months to deploy
“I don’t need to know why”
You Choose

http://t3.gstatic.com/images?q=tbn:ANd9GcQWRuZpmFkyvK2_5Gx-l5yrqjBC-HgbRzzSIMMJBoW07Q1KuS
Get in the way

http://t0.gstatic.com/images?q=tbn:ANd9GcT7Ih2Vpmm--GB0kA4cEVA7fbd7xDgSINfDggMgQuYOenNZ5KZjBiA
Competitive Advantage
Security and Stability are the ante
Business needs pay your salary
Cultural Change
We need to change
Development
Business
You
Serve the business
Process
Exists for a reason
Change Management
Confidence
Without Process
Confidence through Tooling

http://www.mdpretech.com/images/Products/Precision%20Tooling%20for%20IC%20mold%20and%20Plastic%20mold.jpg
Tool Adoption
Developers Win

- Continuous Integration
- Version Control
- Automated testing
- Syntax checking
- Bug trackers
- Dev/Test/Build

- Spring, JBOSS
- Node.js
- Ruby on Rails
- PaaS
- New Relic
Sysadmins are Conservative
Needs change faster than we do
Find a way
Self-service
Cloud Computing

http://t2.gstatic.com/images?q=tbn:ANd9GcRSjOE5BJr_AIvmjZk1tCj7LU_qENIb58MuGqQWxU2DqgETHz-
Collaboration
Operations is not the reason
Enablement
Who?
Summary
Culture
You
Questions?