The hacker way Jim Zemlin, The Linux Foundation March 2012



Erlang and Linux have similar backgrounds







Erlang and Linux are ideal for embedded applications



We're making a lot more connections in daily life, most are transparent and intermittent



Embedded growth brings new challenges...

More devices to build

More end points = •

More connections to manage

More failures to tolerate



... Challenges easily addressed by Erlang and Linux



We are Proving the Hacker Way Works

Are growing – quickly

Erlang

Linux

Are solving problems in the highest-growth markets

Provide essential infrastructure at very low cost



Who said this?



"Code wins arguments."



"The best idea and implementation should always win."



MATRIX REVELATIONS: THE TRUTH ABOUT THE WACHOWSKIS

tilley, reaching

LEADER OF THE FREE WORLD

His open source software is making Bill Gates sweat What's next: Open source science, law, and design.

PLU5

JENNIFER ANISTON, NUDE? ONE MAN'S CRUSADE AGAINST FAKE CELEB PORN

MALCOLM MCLAREN ON THE NEW MUSIC UNDERGROUND

THE FIRST NET ELECTION

UNBELIEVABLE GAMES

LINUS TORNALOS. BACK ON THE FRONT LINES OF THE LINUX WARS









Why is the world turning to Linux and Open Source?



Reason One: The Internet is Changing

The Internet of People is 1 Billion...



...headed toward 2 billion

The Internet of connected devices...



... is headed to 1 trillion.

Requirements are changing for a more instrumented, interconnected, intelligent world

Transactions / Year Due to Changing Workloads e.g. Real-time optimization of a Power Grid by reading meters every 15 minutes... It only takes one million customers to generate Transactions per vear 0.36B 12M

Meter Reads per Month

Meter Reads per Day

35B

What do you need to deal with this future?

Instrumentation: in embedded systems to collect data

Network Servers: to gather and store data

Super computers: to analyze this data explosion

Devices: to display, communicate and interact with data

Sound familiar?



Reason Two: It's saves money

The price pressure of innovation



Source: Henry Chesbrough - Open Business Models

Open innovation enables new revenue streams, faster time to market, and lower costs



Source: Henry Chesbrough - Open Business Models

Reason three: the move to services

FREE

"We don't think of the Kindle Fire as a tablet. We think of it as a service." Jeff Bezos, September 2011

The move towards a services economy for consumers



The move towards a services economy for enterprise

appzero





cloud servers⁶



Linux is de facto winner as a services platform

Google amazon facebook

Could Google, Amazon or Facebook be the companies they are today if they were written on Microsoft .NET?

Linux is the center of all major computing trends



The Importance of Being on the Right Side of History

In 20 years we have seen it all. Predictions of Linux demise for technical reasons, for usability reasons, for profitability reasons, and for legal reasons.

5,547 10,923 \$10,800,000,000 2,700,000



Thank you.