





#### NORTH BRIDGE + BLACKDUCK THE COLLABORATORS 2016

#### PLATINUM COLLABORATORS



















































#### **COLLABORATORS**











































































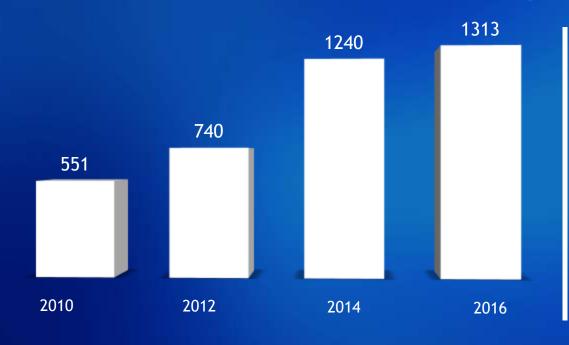


## DEMOGRAPHICS



#### # 18

### RECORD-BREAKING SURVEY

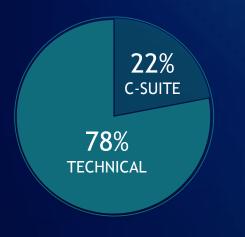


Systems Other

Architect/Engineer
CIO/CTO
Over Strakegy Officer
CEO/Founder/
Co-Founder/President
Ceneral Cournet or Legal Department

Software Engineer
/ Developer
/ Director IT
/ Infrastructure and Operations Manager

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@PAULSANTINELLI

PAUL SANTINELLI GENERAL PARTNER NORTH BRIDGE Open source today is unequivocally the engine of innovation; whether that's powering technology like operating systems, cloud, big data or IoT, or powering a new generation of open source companies delivering compelling solutions to the market

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NORTH BRIDGE





# ONCE A TINY SPECK IN THE TECH UNIVERSE, OPEN SOURCE IN 2016 IS AMONG ITS BRIGHTEST STARS

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Ubiquitous worldwide
Open software development IS the rule



# FUTURE OF OPEN SOURCE SURVEY MILESTONES



- 2008 NO sectors of the software industry will be invulnerable to disruption from Open Source
- 2011 First year when lower cost wasn't the number one answer for what makes Open Source attractive
- 2013 If software is eating the world, open source is eating the software world
- 2014 Open source is touching new people, new technologies, new economics





LOU SHIPLEY
PRESIDENT AND CEO
BLACK DUCK
SOFTWARE

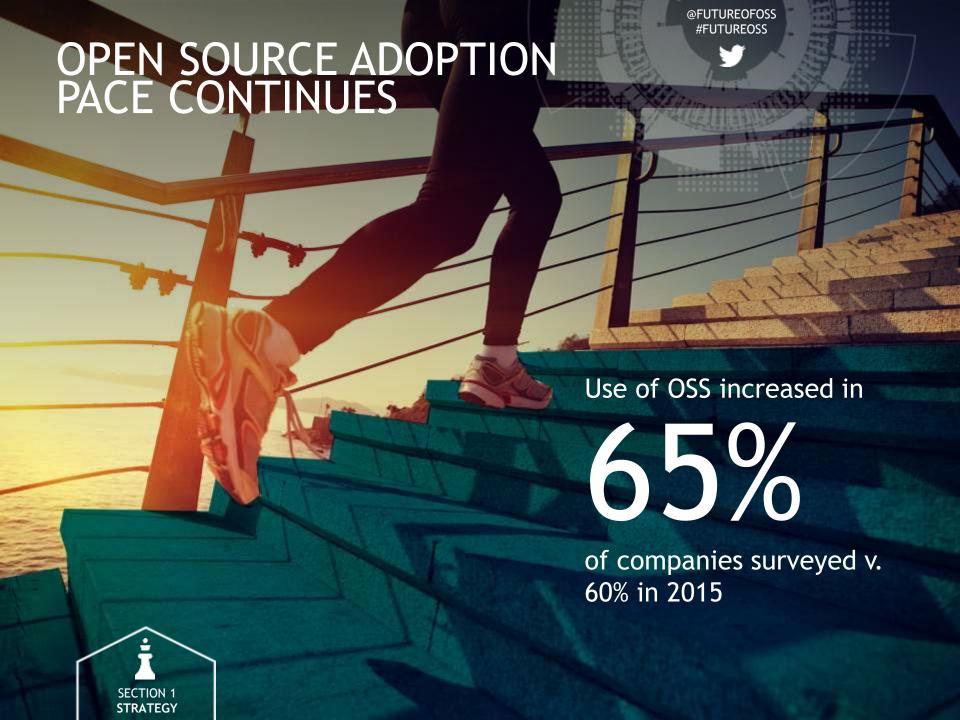
When the first survey launched 10 years ago, hardly anyone would have predicted that open source use would be ubiquitous worldwide just a decade later, but for many good reasons that's what happened. Its value in reducing development costs, in freeing internal developers to work on higher-order tasks, and in accelerating time to market is undeniable. Simply put, open source is the way applications are developed today.

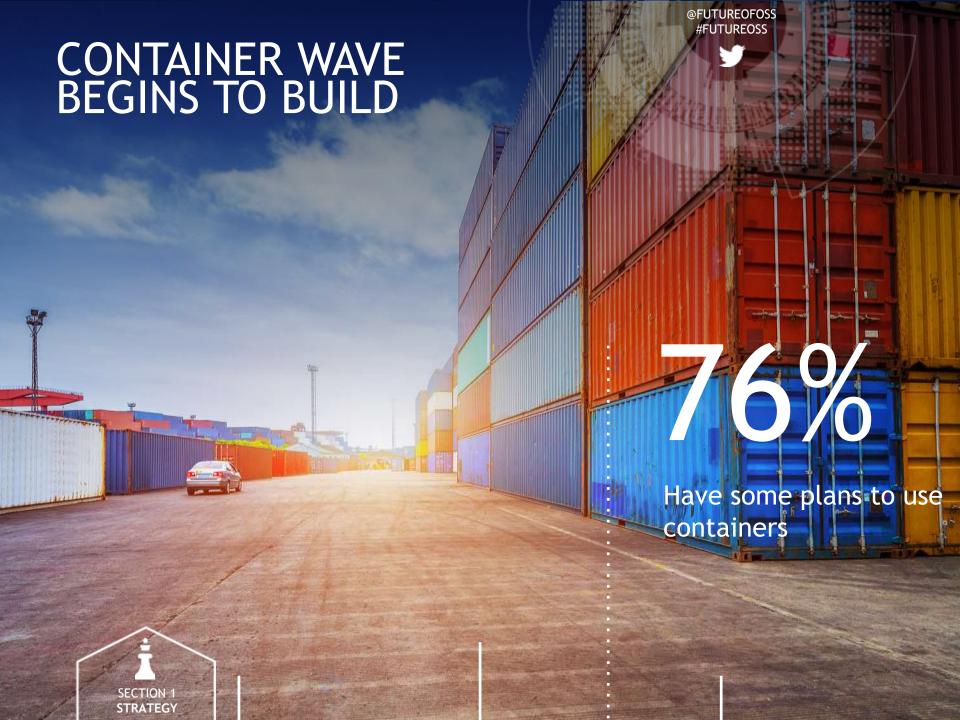


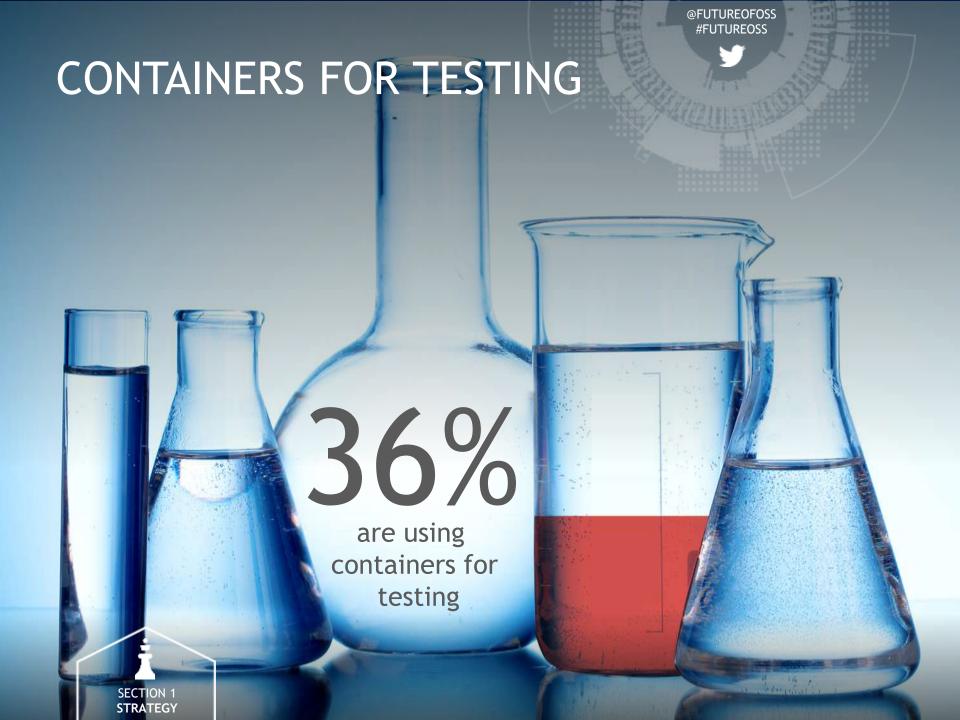


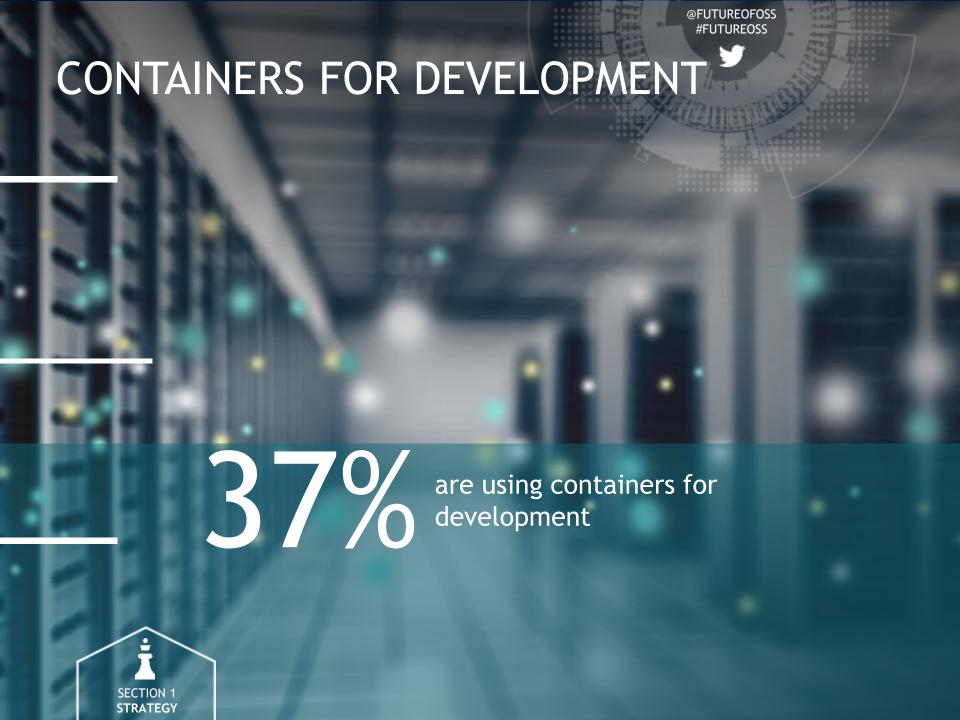












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## WHY USE OPEN SOURCE

2

Competitive features & technical capabilities

1

Quality of solutions

3

Ability to customize & fix



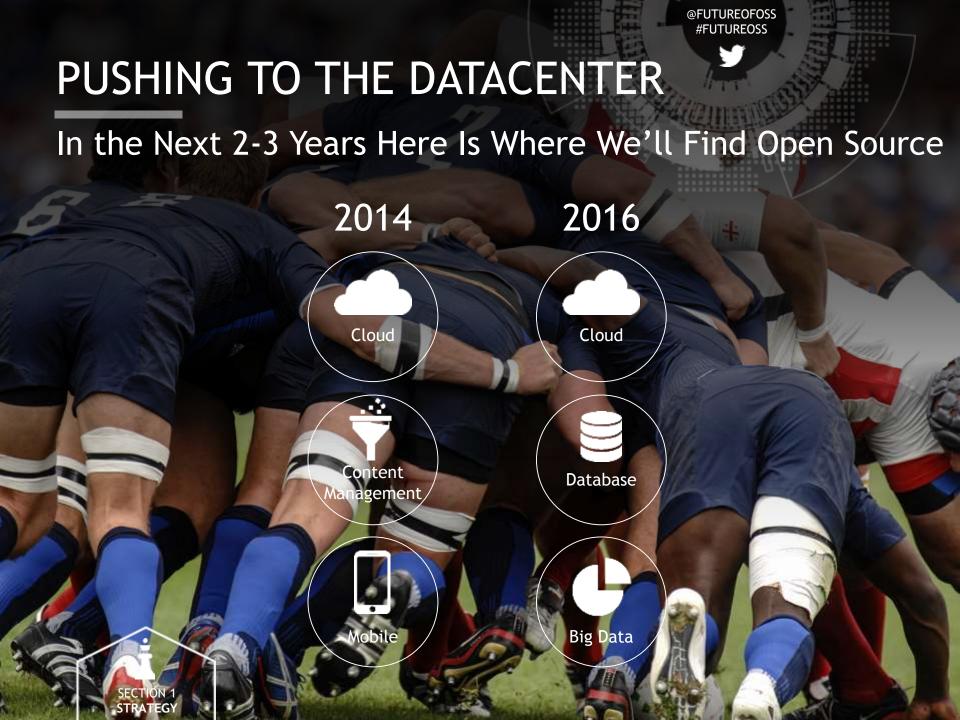


## OPEN SOURCE IS CORE

Where Companies Are Using Open Source Today











More and more strategic

2015

2016

Access to source code

Competitive Features

Ability to customize and fix

Freedom from vendor lock-in

Freedom from vendor lock-in

Quality of solutions

TCO

Ability to customize and fix

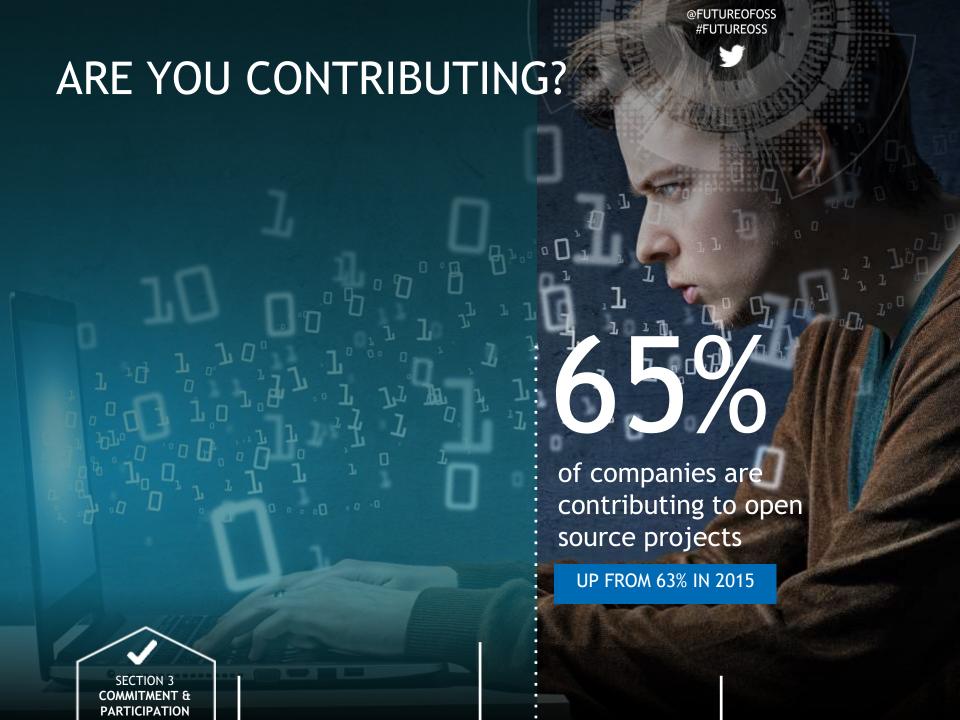






## COMMITMENT & PARTICIPATION







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# MORE DEDICATED RESOURCES ARE NEEDED





## WHY PARTICIPATE IN OPEN SOURCE

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participate in open source to gain competitive edge

functionality to a project

SECTION 3
COMMITMENT &

**PARTICIPATION** 

participate in open source

to fix bugs or add



### FROM VALUES TO VALUE

Shift In Why Companies Participate In Open Source

2015

2016

Reduce Development Costs Fix Bugs or Add Functionality

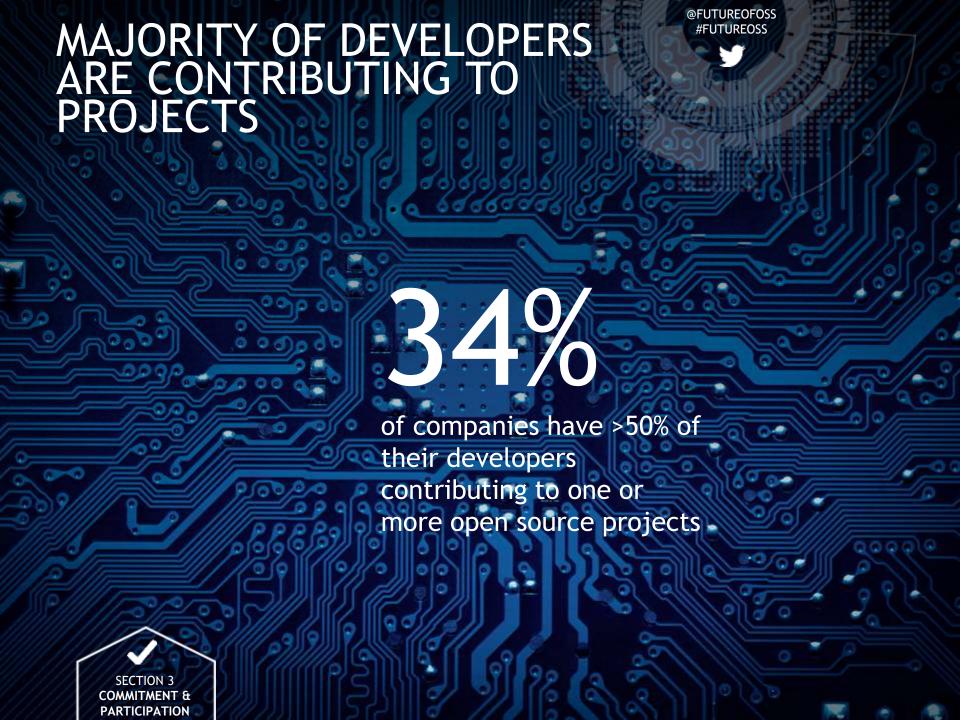
Competitive Advantage

Gain Competitive Advantage

Alignment With Company
Mission & Values

Reduce Development Costs

SECTION 3
COMMITMENT &
PARTICIPATION









# A MORE EFFECTIVE OPEN SOURCE POLICY...

69%

An active community supporting the open source projects

62%

Maturity of the open source project

41%

List of approved open source licenses, specific use cases

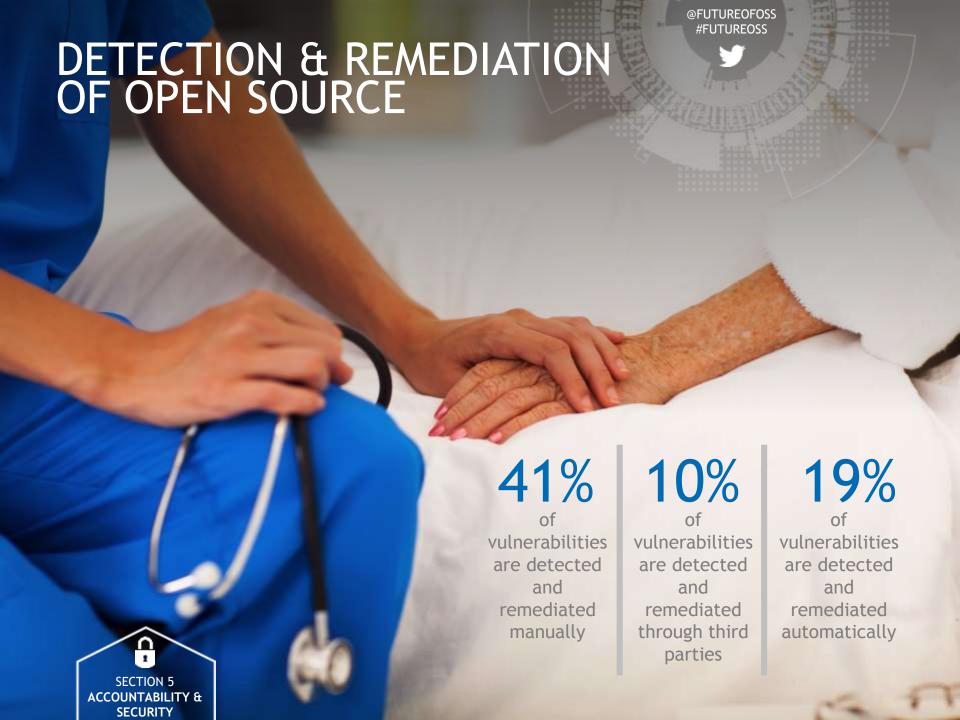




## ACCOUNTABILITY & SECURITY









WHO IS HANDLING KNOWN OPEN SOURCE VULNERABILITIES?

In over 1/2

of all companies no one has responsibility for identifying and tracking remediation

Interestingly,
development organizations are

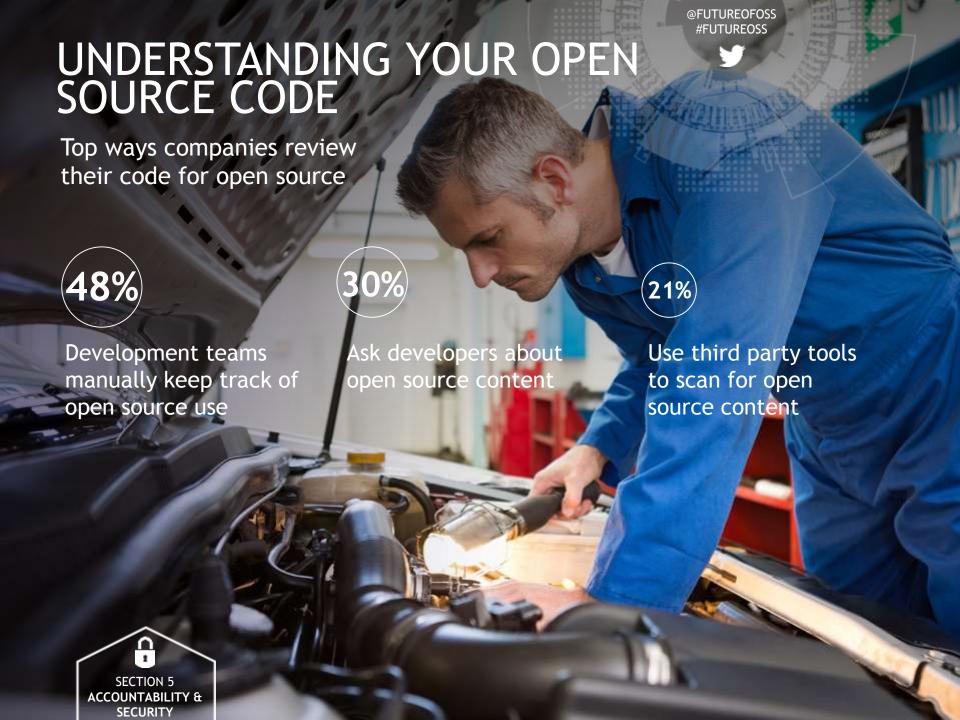
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### 33% more likely

to be responsible for identifying and tracking remediation of known open source vulnerabilities than security organizations







# REVIEWING CODE FOR OPEN SOURCE CONTENT IS STILL HAPHAZARD

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58%

of companies are still reviewing code for open source content only under special circumstances



OPEN SOURCE VULNERABILITY DISCLOSURE

Fewer than

17%

are disclosing vulnerabilities responsibly with more than one month to fix the exposure

>50% are openly announcing the vulnerability or providing no disclosure at all

quert/891)

useradmin bw: asdfg&\*90 email home pw:

@FUTUREOFOSS
#FUTUREOSS

log in: user: joneser admin (\* pw:qwert098

server: user: j 1973 ow: ag 1@ws

SECTION 5
ACCOUNTABILITY
SECURITY

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### OPEN SOURCE VERSIONING SYSTEM USAGE









Proprietary CVS

Git is the overwhelming choice for versioning

73%





### OPEN BUSINESS & INVESTMENT



# OPEN SOURCE BUSINESS IMPACT IS CLEAR

90%

8000

of respondents say Open Source Improves:









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## HOW TO MAKE MONEY WITH OPEN SOURCE

In 2014



**OPEN BUSINESS** 

50% Support Subscriptions

(39%) Custom Development

In The Next 2-3 Years respondents overwhelming said the following business models would generate the most value for open source vendors:



(42%) Custom Development

(41%) Services/Support





(SaaS not as dominant as it once was; PaaS one to watch at 31% and rising quickly)

# NORTH BRIDGE IN OPEN SOURCE



# \$1.3B VALUATION UP 86% YOY







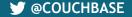














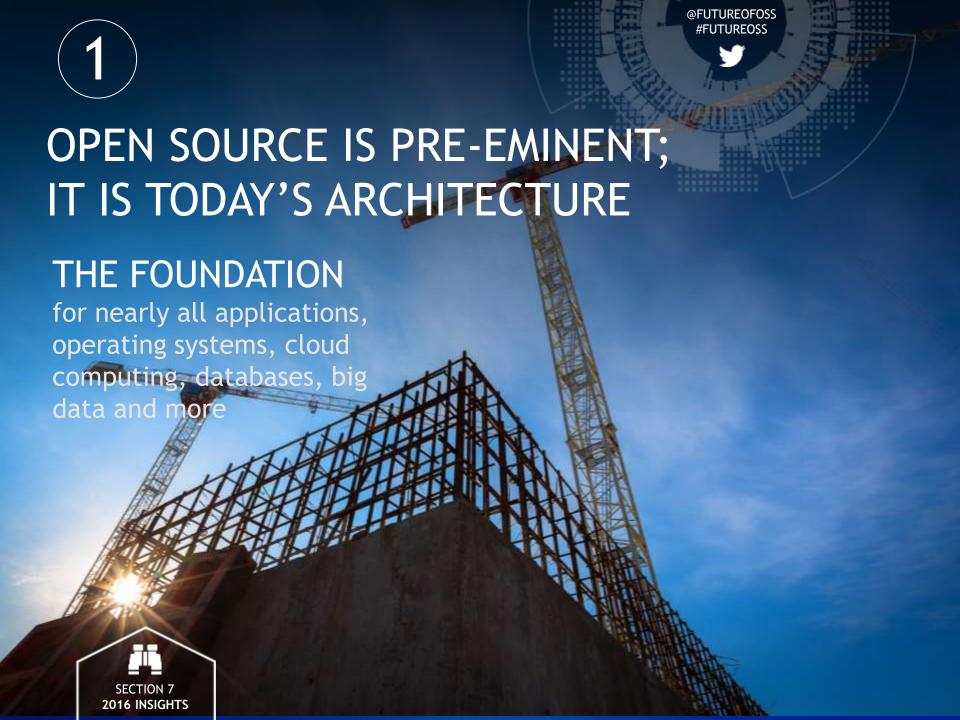


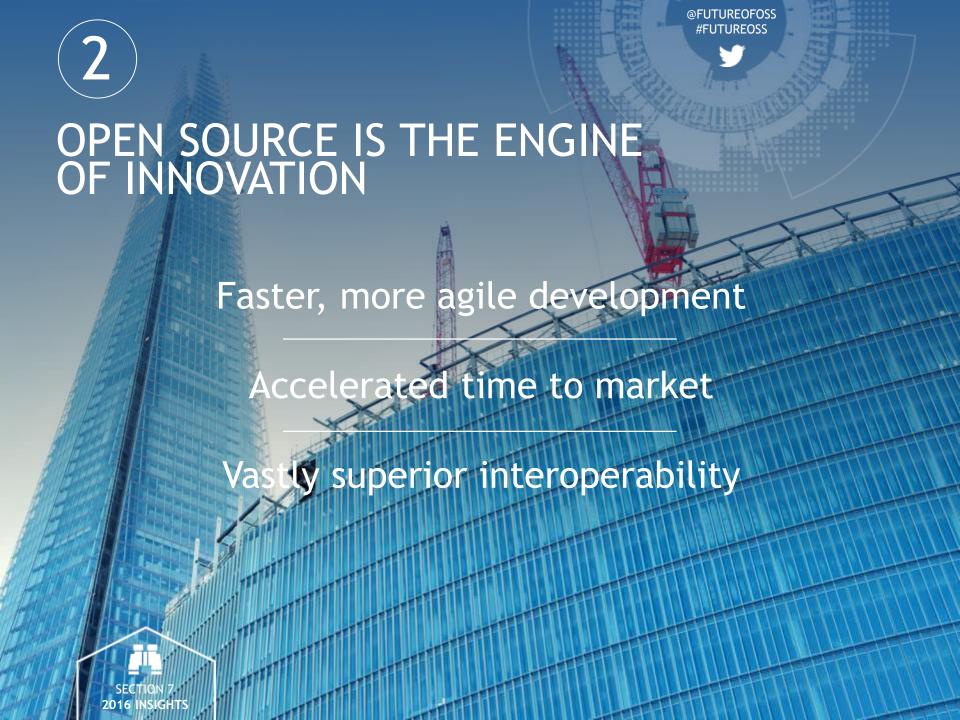


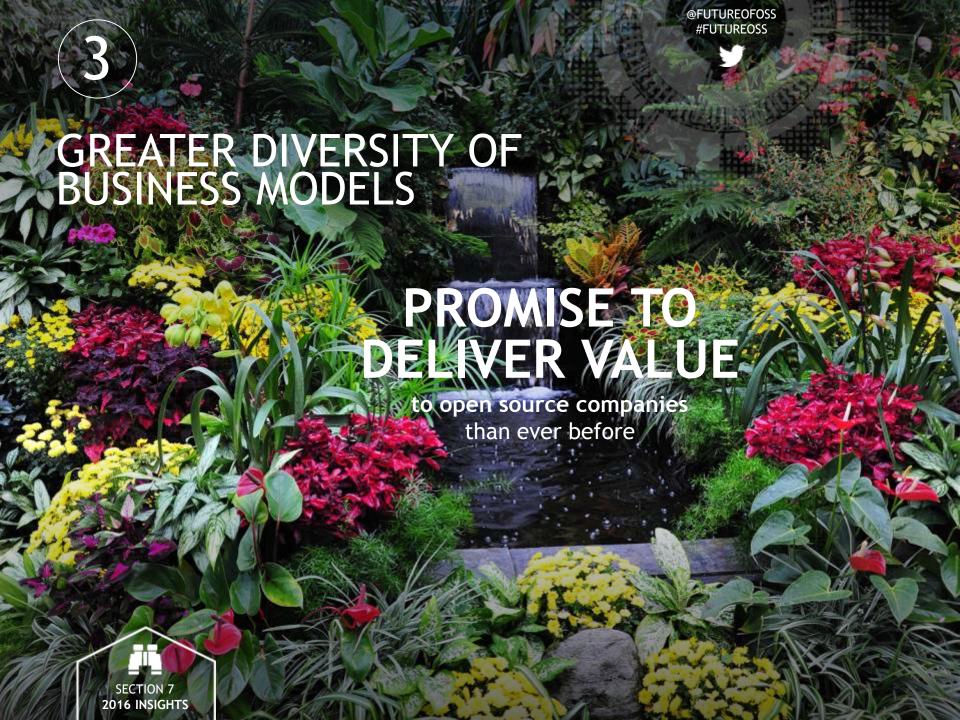


### → 2016 INSIGHTS













#### THANK YOU COLLABORATORS



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### FIND OUT MORE



### THE FUTURE OF OPEN SOURCE

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### NORTH BRIDGE

HTTP://NORTHBRIDGE.COM/OPEN-SOURCE | @NORTH BRIDGE



HTTP://WWW.BLACKDUCKSOFTWARE.COM/ | @BLACK\_DUCK\_SW



HTTP://OPENSOURCEDELIVERS.COM/ @OSDELIVERS



## -> CASE STUDY & QUOTES







@DRIES @ACQUIA

### DRIES BUYTAERT ACQUIA

This year's survey responses indicate what we've all been witnessing first-hand for a long time: the growing adoption of open source technologies. It is exciting to see more great examples of large global enterprises innovating faster with open source software and contributing back so others can benefit as well. Hubert Burda Media, for example, moved to open source Drupal and recently released Thunder, its first major contribution back to the open source community. This is the beauty of open source – one organization creates, and then countless other organizations can use and innovate on top of it. The possibilities are endless.



#### CASE STUDY FOR ACQUIC

CUSTOMER •-

**Hubert Burda Media** 

#### **PROBLEM**

For more than 100 years, Hubert Burda Media has cultivated a vast and diverse readership across its print publications. And while revenue streams from traditional channels are steadily declining, digital channels are fast on the rise. In fact, the sale of digital advertising has grown from 20-30% year-overyear. Burda needed an open cloud platform to deliver personalized experiences to each user and tap into new revenue streams from online subscriptions and digital ad sales.

#### **SOLUTION**

Burda developed and maintains a Drupal distribution called Thunder, customized with publishing and media houses in mind. Thunder standardizes editorial workflows, adds freemium versions of services like video transcription and online guizzes, and more. In addition, since Thunder is open source, other publishing houses large and small can it and contribute their own improvements.

Thunder is still in public beta, but Burda has already migrated three brands which average nearly 2M monthly visits each. Most of the other German Burda brands, including Elle.de and Bunte.de, which have more than 20M monthly visits each, are on track to migrate to Thunder in the next 12 months.









### ARNOLD LEUNG APPNOVATION

The community that comes with open source is truly unique, rapidly evolving and focused on continuous improvement. Being engaged with this community is something that's really important for Appnovation and with the support of our customers, we're able to work on their project while at the same contribute code to the community.

Community-driven development will take open source to the next level of delivering best-in class technology solutions.





CASE STUDY FOR







#### **OUR WORK**

O2E Brands (Ordinary to Exceptional) is based in Vancouver, BC, and includes three uniquely branded companies 1-800-GOT-JUNK?, WOW 1 DAY PAINTING and You Move Me. They are leaders in customer experience, innovation and franchise development with combined revenue of \$150M

O2E Brands' objective was to create a single platform that would enable them to serve unique needs of each of their brands' websites while improving management and productivity.

#### PROBLEM SOLVED

O2E Brands gained a competitive advantage with their scalable, flexible and easily maintainable web and IT infrastructure, providing consistency, quality, and efficiency across each web property and significantly increasing the reliability to each sites' performance.

O2E Brands now has the ability to increase business agility, and to respond to market opportunities with speed, responsiveness, and creativity.







# MIKE MILINKOVICH, ECLIPSE FOUNDATION

The next wave of open source development is being led by industrials and enterprises. We are seeing increasing commitment to open source by major players in Automotive, Aerospace, and Industrial as the way to promote open innovation and collaboration. Companies that participate in Eclipse Working Groups use open source to build scalable industry platforms that accelerate innovation, adoption, and time-tomarket. These companies are creating new business models that are allowing them to succeed in emerging domains such as Cloud, and Internet of Things.







NAVIN BUDHIRAJA, INFOSYS LTD.

Infosys believes Open Source software, and its corresponding ecosystem, will be a necessary enabler as enterprises embrace Digital to build a new class of consumer centric, real-time and connected applications. Infosys continues to build deep Open Source expertise and setup its Open Source program – OSSmosis with an objective of 'nurturing Innovation through Open Source Adoption & Contribution'. The extensive use of Open Source in Infosys Information Platform (IIP) reflects Infosys commitment to the Open Source community.



### CASE STUDY FOR NOS





#### **OUR WORK**

Knowledge curation efforts on umpire data captured by ATP across all tournaments over the last 12 months and 5 years of the Hawkeye data from the Barclays ATP World Tour Finals. This was done using just 2 nodes of 8 Core CPU and 16GB RAM for hardware, IIP processed voluminous data of over 240,000 records (12 million data points) in near real-time. Insights-as-a service was provided through machine learning algorithms for predicting speed of shots against each other for both forehand and backhand, serve-speed at different time slices, Point winning shots, Winning statistics at different surface types, Holding statistics at different game scores, Double fault, match winning streaks, first serve return, match points saved for each player, Fatigue indexes, Serve Analysis based on hawk eye data etc.

#### PROBLEM SOLVED

High probability factors influencing match outcomes were published as insights, in real time, on ATPWorldTour.com for tennis fans all





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#### MARINA LATINI, THE DOCUMENT FOUNDATION

Open Source software for personal productivity is growing on a global scale, based on the progress of projects such as LibreOffice and on the support of open standards which improve interoperability. At The Document Foundation, we see an increasing number of migrations from proprietary solutions, in enterprises and public administrations worldwide.

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CASE STUDY FOF



CUSTOMER •-

Italian Defence Support Staff

#### **RESPONSIBILITIES**

The Italian Defence Support Staff is the organ of the Italian armed forces responsible for the military and technical infrastructure of the Italian Ministry of Defence. One of the tasks of the organization is the choice of the application software deployed on the 120,000 PCs used by the armed forces on a daily Basis.

#### **OBJECTIVES**

Providing a free office suite for personal productivity, reducing dramatically the license cost while offering the same feature set and the same level of security. Moving

to a standard document format (ODF) to foster interoperability.

#### **SOLUTION**

Deploy LibreOffice on 120,000 PCs between 2016 and 2020, based on the collaboration agreement with Associazione LibreItalia (representing the LibreOffice Italian community).



#### **SOLUTION**

- Communication to Top Ranks
- Training to Trainers
- Training to Internal Support Staff
- Training to IT Leaders in Departments
- Seminars to Top Ranks
- Screening of Third Party Applications
- Analysis of Training Needs
- Test on Pilot Departments
- Migration to LibreOffice of first 5,000 PCs





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# JIM ZEMLIN THE LINUX FOUNDATION

Open source is being used by all of the world's leading technologists to advance computing. Understanding how to manage these shared resources requires a new level of understanding and best practices. This survey and report will be helpful to an increasing number of open source professionals who we are working with to establish, build and sustain the greatest shared technologies of our time.







BRIAN SPECTOR, CEO, MIRACL

Everyone knows open source projects reflect a variety of perspectives and address a wider range of solutions than industry offerings tend to. Understanding the internet security framework is broken, MIRACL and NTT have jumpstarted the necessary change by opening up our respective crypto libraries and code to enable the power of the open source developer community and close vulnerabilities of outdated legacy security certificates. Collectively, we will make the web more secure for all.





STUART MACKINTOSH,
OPUSVL

Open Source has become the default technology foundation for businesses in both private and public sectors and we can see Government policy evolving further in this direction. Going forward, I expect to see an increase in commercial models which support the export of Open Source and greater spend within the Open Source marketplace as a whole.







# BRIAN GRACELY LEAD CLOUD ANALYST WIKIBON

Directly or indirectly, open source is having a significant impact on every aspect of IT. At Wikibon, we see companies transforming towards Digital Business, and open source software is a key enabler. Understanding how to work collaboratively with open communities is becoming a core skill needed for any company hoping to succeed in the 21st century.





