THE LINUX FOUNDATION
OPEN SOURCE SUMMIT
NORTH AMERICA

Embedded Linux Conference
North America

VIDEO

SLIDES

Q&A WITH SPEAKER **SPEAKER BIO**

Chris Wright
CTO
Red Hat

Chris Wright is senior vice president and chief technology officer (CTO) at Red Hat. Wright leads the Office of the CTO, which is responsible for incubating emerging technologies and developing forward-looking perspectives on innovations such as artificial intelligence, cloud computing, distributed storage, software defined networking and network functions virtualization, containers, automation and continuous delivery, and distributed ledger. During his more than 20 years as

CAPTIONING

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Themes:	Font Size:	Font Family:	Background:	Text Color:	Scr
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today the Open Power foundation is announcing that IBM's A2I power

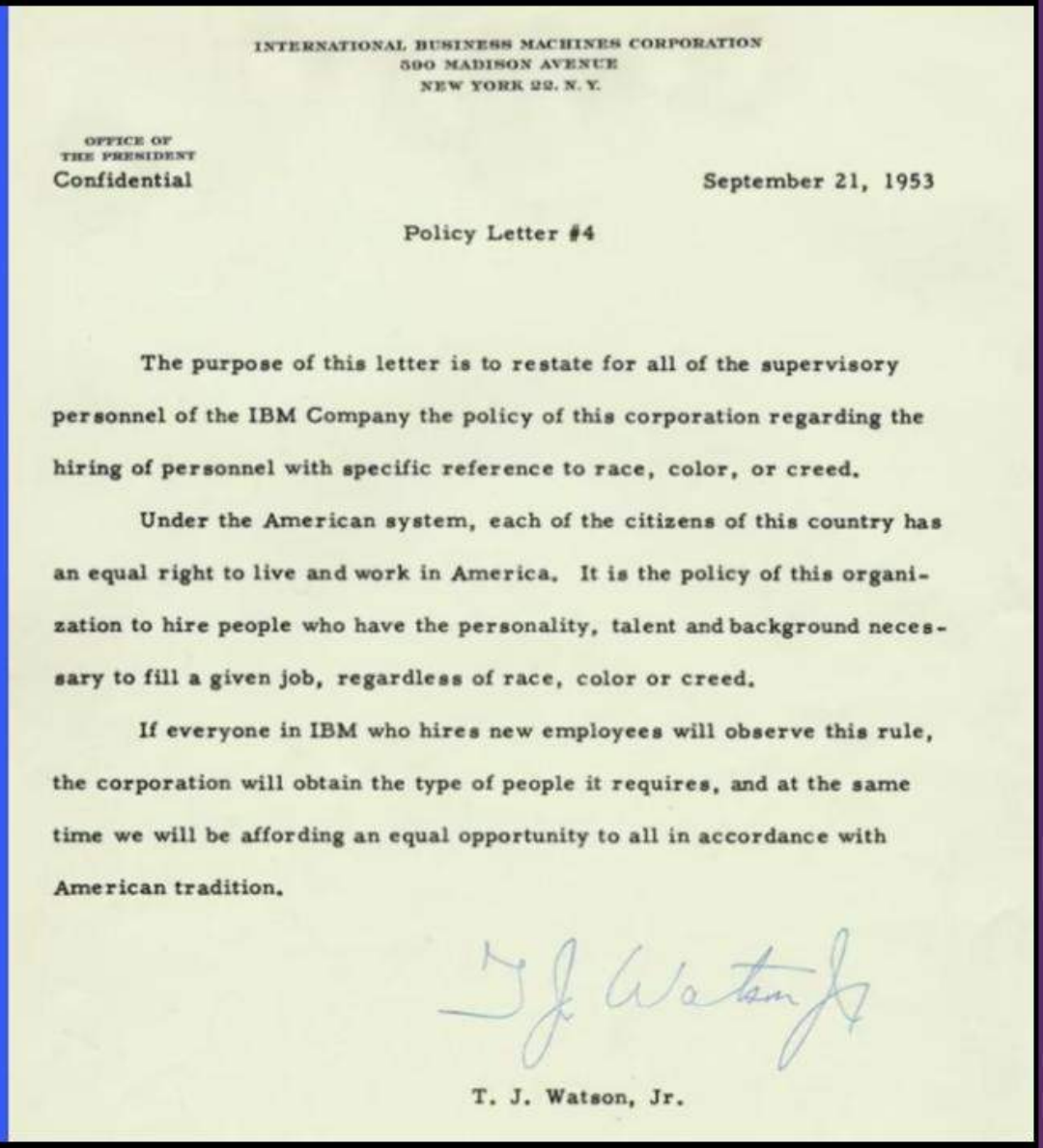
VIDEO

and invoking its core values…

" . . .Each Of the citizens of this country has an equal right to live and work in America. It is the policy of this organization to hire people who have the personality, talent and background necessary to fill a given job, regardless of race, color or creed."

T.J. Watson, IBM CEO

September 1953, more than a decade before the passage Of the Civil Rights Act



INTERNATIONAL BUSINESS MACHINES CORPORATION
590 MADISON AVENUE
NEW YORK 22, N. Y.

OFFICE OF
THE PRESIDENT
Confidential

September 21, 1953

Policy Letter #4

The purpose of this letter is to restate for all of the supervisory personnel of the IBM Company the policy of this corporation regarding the hiring of personnel with specific reference to race, color, or creed.

Under the American system, each of the citizens of this country has an equal right to live and work in America. It is the policy of this organization to hire people who have the personality, talent and background necessary to fill a given job, regardless of race, color or creed.

If everyone in IBM who hires new employees will observe this rule, the corporation will obtain the type of people it requires, and at the same time we will be affording an equal opportunity to all in accordance with American tradition.

T. J. Watson, Jr.

VIDEO

"We believe now is the time to begin a national dialogue on whether and how facial recognition technology should be employed by domestic law enforcement agencies"

Arvind Krishna
IBM CEO, June 2020 letter to US Congress

VIDEO

We are have been working responsibly to bring

Trust and Transparency into AI..

...relevant more so in these unprecedented times....

THE HILL

Pandemic is showing us we need safe and ethical AI more than ever

strategy+business

Sign Up for Newsletters

COVID-19 STRATEGY LEADERSHIP ORGANIZATIONS & PEOPLE TECH & INNOVATION VIDEOS & MORE EDITOR'S

Responsible AI is even more essential during a crisis

Rolling out innovative technologies carefully and

Axios

Fresh concerns about AI bias in the age of COVID-19

unprecedented demands during the coronavirus

of artificial intelligence in some of ...

by

Thrive Global

COVID-19 Could Bring Bias in AI to Pandemic Level Crisis

EqualAI works with tech leaders, companies and policy makers to reduce unconscious bias in AI. During the COVID-19 pandemic, artificial ...

3 days ago

ABOUT US PUBLISH CONNECT MAGAZINE MORE +++

BEYOND RACIAL BIASES, CAN AI BE MADE ETHICAL?

ARTIFICIAL INTELLIGENCE LATEST NEWS

by Preetipadma / June 16, 2020

VIDEO

Trusted AI Lifecycle through Open Source

Pillars of trust, woven into the lifecycle of an AI application

Did anyone tamper with it?

ROBUSTNESS

Adversarial Robustness 360

↳ (ART)

github.com/IBM/adversarial-robustness-toolbox

art-demo.mybluemix.net

Is it fair?

FAIRNESS

AI Fairness 360

↳ (AIF360)

github.com/IBM/AIF360

aif360.mybluemix.net

Is it easy to understand?

EXPLAINABILITY

AI Explainability 360

↳ (AIX360)

github.com/IBM/AIX360

aix360.mybluemix.net

Is it accountable?

LINEAGE

AI Factsheets

VIDEO

Announcing: Moving Trusted AI projects in Open Governance to LFAI (Accepted into Incubation 6/18/20)

Adversarial Robustness 360

↳ (ART)

github.com/IBM/adversarial-robustness-toolbox

art-demo.mybluemix.net

AI Fairness 360

↳ (AIF360)

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AI Explainability 360

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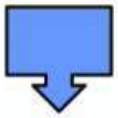
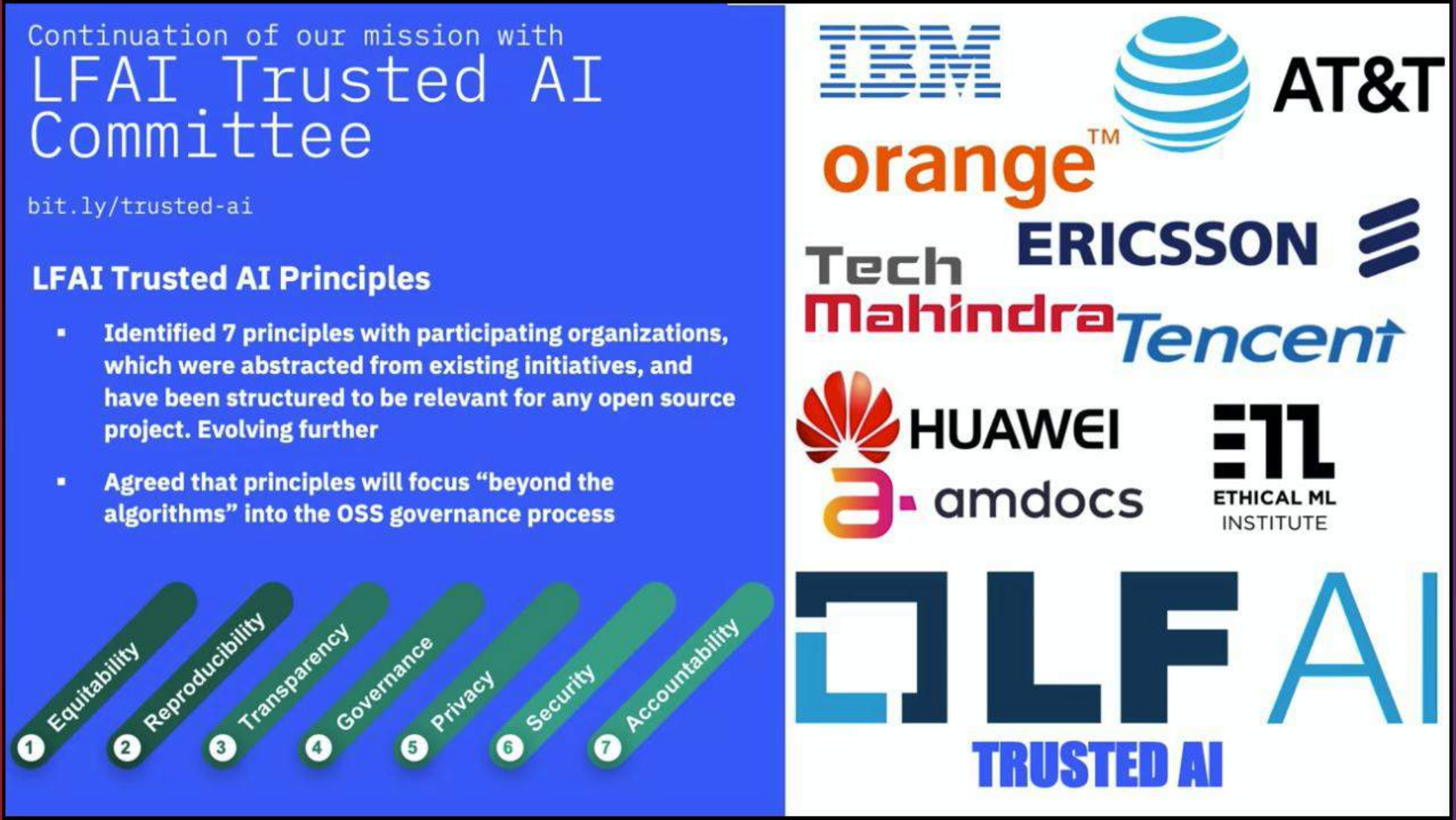


powered by Intrado

VIDEO


Continuation of our mission with
LFAI Trusted AI Committee
bit.ly/trusted-ai
LFAI Trusted AI Principles
Identified 7 principles with participating organizations, which were abstracted from existing initiatives, and have been structured to be relevant for any open source project. Evolving further
Agreed that principles will focus "beyond the algorithms" into the OSS governance process
1 Equitability
2 Reproducibility
3 Transparency
4 Governance
5 Privacy
6 Security
7 Accountability
IBM
AT&T
orange
ERICSSON
Tech Mahindra
Tencent
HUAWEI
amdocs
ETHICAL ML INSTITUTE
LF AI
TRUSTED AI

VIDEO

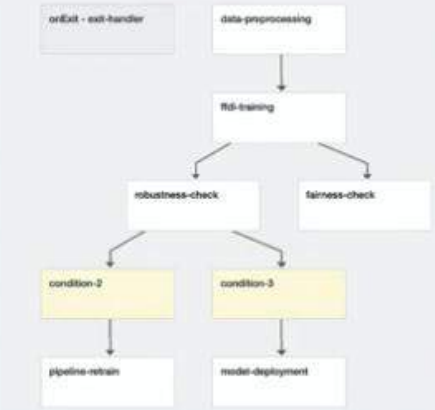
What's new

AI Factsheets 360

https://aifs360.mybluemix.net

- AI Governance
- AI Transparency
- Sample factsheets with IBM Model Asset Exchange (MAX) models

MLOps: Kubeflow Pipelines



- Starter MLOps components for AIF360 and ART
- Use for fairness and adversarial detection with Kubeflow Pipelines

https://github.com/IBM/AIF360/tree/master/mlops

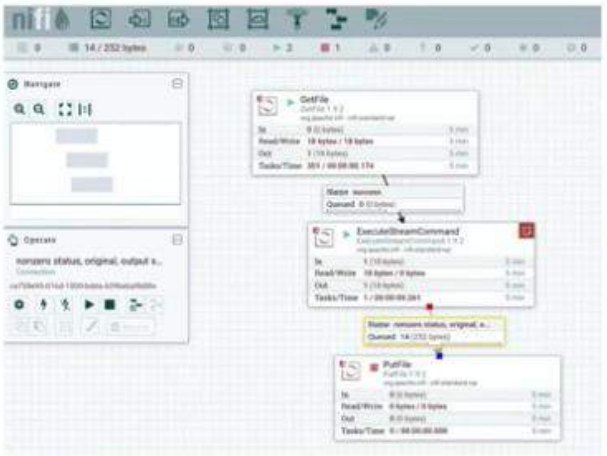
AIF 360

- Available now in R (before was only in python)
- Compatibility to Scikit Learn

Blogs:

- The AIF360 fairness toolkit is now available for R users
- The AIF360 team adds compatibility with scikit-learn
- IBM continues momentum in AI and trust leadership

MLOps: Apache Nifi



- Apache Nifi processor for AIF360

https://lfai.foundation/tag/apache-nifi/

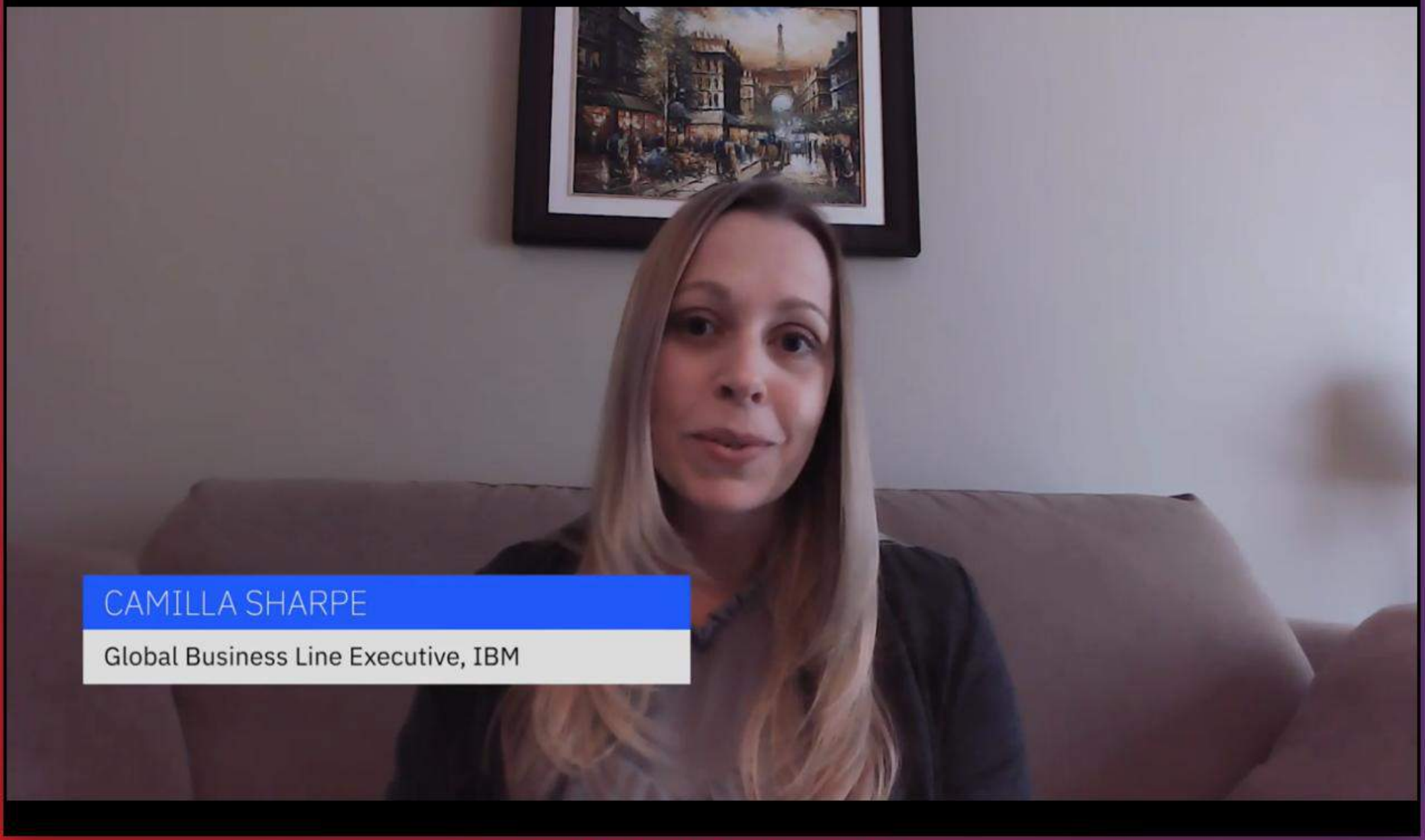
VIDEO

MARIAN VILLA

PionerasDev, Colombia

VIDEO

VIDEO



VIDEO

Open Source Adoption Challenges

1. Open Source Governance
2. Awareness of Open Source usage
3. Complex SW Stacks → Interoperability
4. Too much choice → Community vs. Commercial
5. Security → Compliance Requirements
6. Enterprise Support → Advisory + Break/Fix

2

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Comprehensive support solutions for the Open Source ecosystem

Linux
Subscription & Support

Commercial OSS
Subscription & Support

Community OSS
Support

Red Hat

SUSE

ubuntu

Analytics
Apache Maven
Apache Spark
Elasticsearch
Kibana
Logstash
FluentD
Grafana
Jenkins
Kafka
Hadoop

Application Runtime
Java
Node.js
OpenJDK
PHP
Python
Consul
NetBeans
Terraform
Vault

Containers
Kubernetes
Docker
Helm
ISTIO

Middleware
ActiveMQ
Apache Camel
Apache CXF
BIND (Berkeley Internet Name Domain)
CephFS
Gluster / GlusterFS
HornetQ
Rabbit MQ
Samba
Sendmail
Apache Artemis
Apache SOAP (Axis)
Apache XMLRPC
Pacemaker

Database
Apache Cassandra
Apache CouchDB
Apache Derby
Couchbase
Galera
MariaDB
MongoDB
MySQL
PostgreSQL
Redis

Deployment Mgmt &
Monitoring
Ansible
Chef
Nagios
Nagios Plugin
Prometheus
Puppet
Zabbix

Application Servers
Apache Tomcat
Apache httpServer
Apache Solr
Celiometer
Drupal
GlassFish
Hibernate
Joomla!
Nginx
Spring Framework
WordPress
Zookeeper
Wildfly

Software Development
Artifactory
Git
GitLab
Gawk
PuTTY
Cucumber

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