

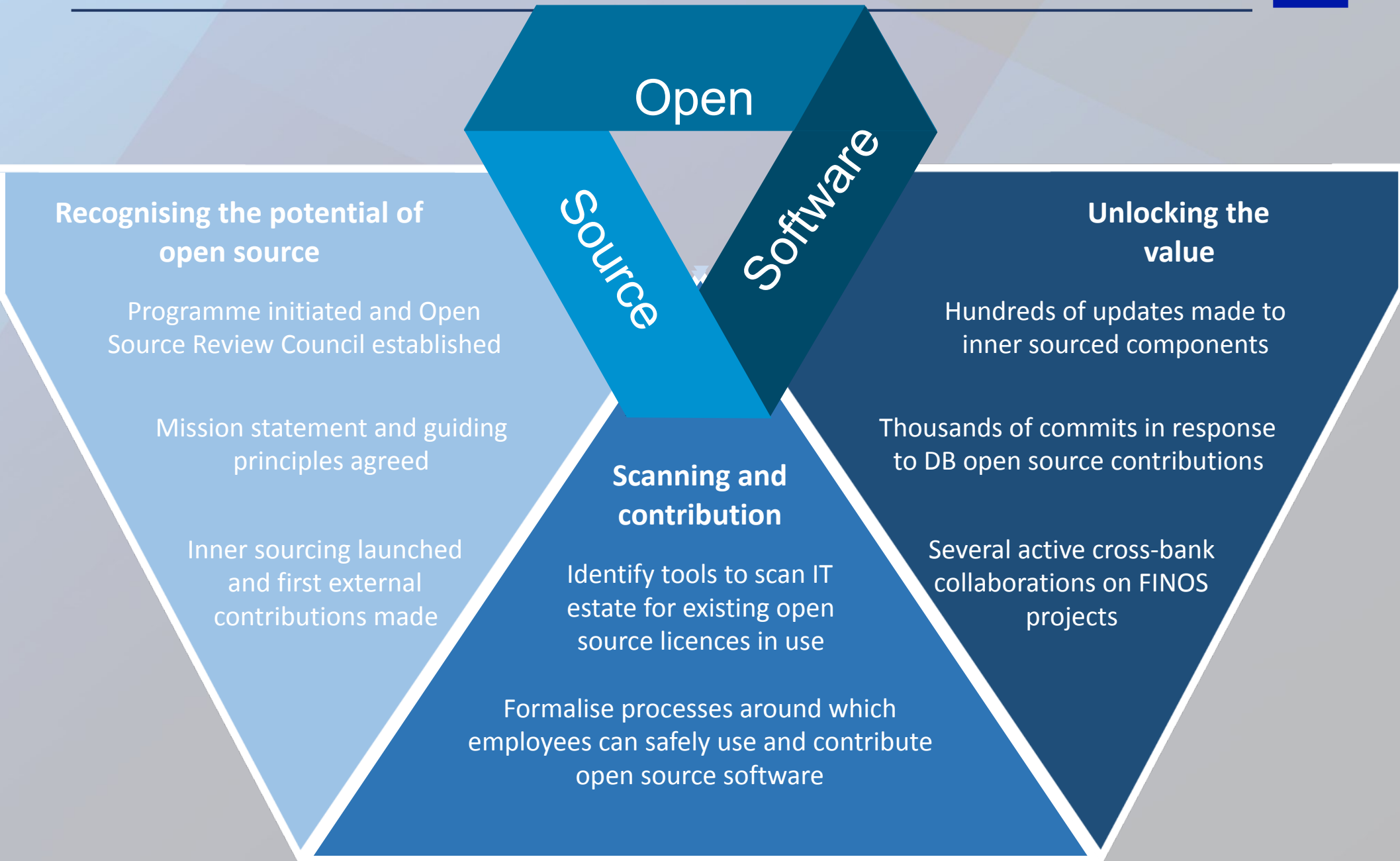


Building an open source culture

Russell Green

20 November 2019

Deutsche Bank's open source journey



Inner sourcing has been a crucial step



752

contributors

26,490

commits made by
the top 10
contributors

2014

dbOpensource
platform initially
launches in C#

2017

Hackathon team
begin to
translate the
code into Java

893

component
updates
2018

2019

Translation
completed by team
of distinguished DB
engineers

86,772

total commits

130+

contributions to
date

Facilitates discovery of re-usable software assets,
lowering development costs and improving delivery

Enables the engineering community to access and
improve a variety of components, **increasing
innovation and agility**

Leveraging marketplace dynamics, teams only utilise
components that are useful

Subject to continuous enhancement

Usability:

- New metrics to track component's performance
- Improved responsiveness
- Optimised UI

Functionality:

- CI/CD pipeline
- Openshift liveness and readiness checks
- Active monitoring of application health

dbCORE enables low-code development



Deutsche Bank
dbCORE

Internal library of productivity tools based on Angular, which streamlines web application building and maintenance through tooling and automation.

- Community driven ✓
- Applications built through simple drag-drop approach ✓
- Develops complete web apps within hours ✓
- 20+ successful projects to-date across three brands ✓

Deutsche Bank 

norisbank

maxblue

Focus on
component



reusability

Established

2017

at DB's Frankfurt
Digital Factory



50+
contributors




Several projects have made contributions, with more on the way



waterstechnology

Plexus Interop



Description: Code designed to connect different applications from across the financial services industry, enabling banks and clients' systems to communicate.

Open source date: October 2017

No. of commits: 1,677

Releases: 147

Waltz




Description: Tool providing architecture-related information to a broad spectrum of DB consumers.

Open source date: December 2017

No. of commits: 5,762

Releases: 154

Muster



Description: Library which acts as a universal data layer for applications and services.

Open source date: December 2018

No. of commits: 260

Releases: 8

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Deutsche Bank extends open source

Written by Chris Lemmon
08/02/2018

Deutsche Bank has made software code publically available that is designed to help environments, allowing them to manage their technology more effectively.

The solution, known as 'Waltz', enables organisations to gather information about their sources across the firm, including information on applications, infrastructure, data, processes and costs.

Related Companies
Deutsche Bank

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Deutsche Bank aims to create a common industry standard for trading technology by making its own computer code publicly available for the first time.

The bank says it will put over 150,000 lines of code from its electronic platforms Autobahn into the public domain so that trading applications from different providers can use it as a shared foundation for building interoperable connections.

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Deutsche Bank open sources more code
07 February 2018

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Deutsche Bank waltzes into open source space

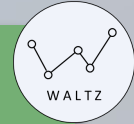
Written by [Antony Peyton](#) 07 Feb 2018

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Waltz is an example of the collaborative power of open source



An architecture information service, collating and presenting insight on applications, infrastructure, data, processes and more.



JULY 2015

Waltz conceived as an architecture information service

OCTOBER 2015

Waltz becomes an open source project

JANUARY 2017

Deutsche Bank implements Waltz into the organisation

DECEMBER 2017

Deutsche Bank makes part of its internal Waltz code publicly available

SEPTEMBER 2019

NatWest Markets announce an intention to contribute to Waltz



TODAY

Waltz becomes a candidate for onboarding to FINOS



1m
hits per year

15k
users

80k
lines of Java and Javascript rated A+

Waltz is central to the Bank's data lineage initiative

200k
edits in 2019

Waltz supports DB's **GDPR** compliance efforts

Committed to open source



The contribution and usage of open source software at Deutsche Bank presents an exciting avenue of innovation for the Bank.

Our commitment to be at the forefront of the open source community shows that we recognise the opportunities open source brings for participation and collaboration not just within the Bank, but with our industry peers.

