FINOS

Fintech Open Source Foundation



The Unexpected Story of NearForm

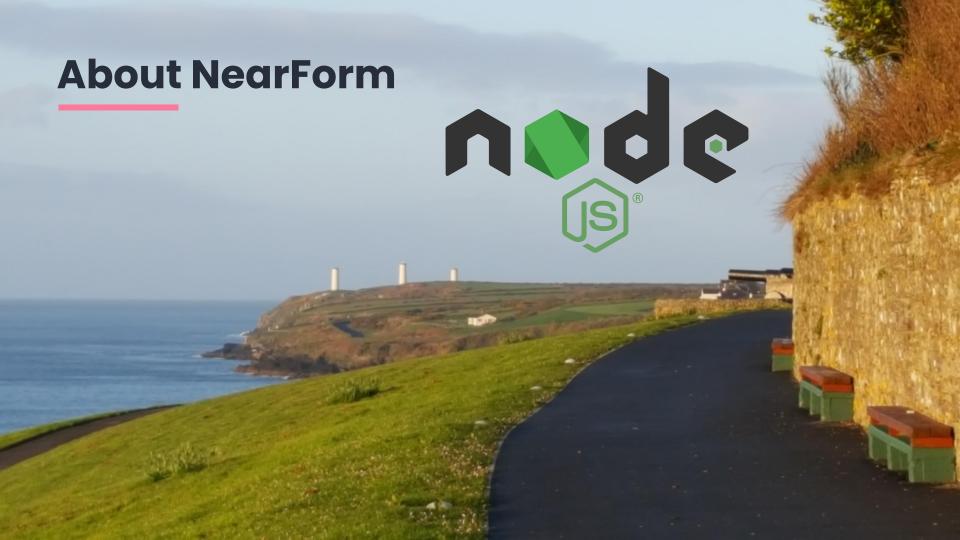
FINOS Host James McLeod, FINOS Director of Community

NearForm Presenters Conor O'Neill - Chief Product Officer Ger O'Shaughnessy - Head of Propositions



Presenters





Example NearForm OSS



Clinic.js is our suite of Node.js performance analysis tools. It includes Doctor, Bubbleprof, Flame and Autocannon. It uses TensorFlow.js ML to ensure data accuracy in noisy environments.



The next version of HTTP is coming soon and NearForm Research is leading its implementation on Node.js. HTTP/3 is a major departure from HTTP/1.1 and HTTP/2.



The worker_threads module enables the use of threads that execute JavaScript in parallel.

Workers (threads) are useful for performing CPU-intensive JavaScript operations.

InnerSource



InnerSource enables organisations to uncover creativity, by removing obstacles for collaboration.

It involves:

- Cultural Inventory
- Building an InnerSource Visibility platform
- Engineering confidence into customers' Software
 Delivery Life Cycles

Why invest so much in OSS?







CONDÉ NAST



Uber

BOSCH

Capital One

Florida Blue 💩 🗓 THE LINUX FOUNDATION

Nutrien

Moody's

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News Corp

ATG

The New York Times

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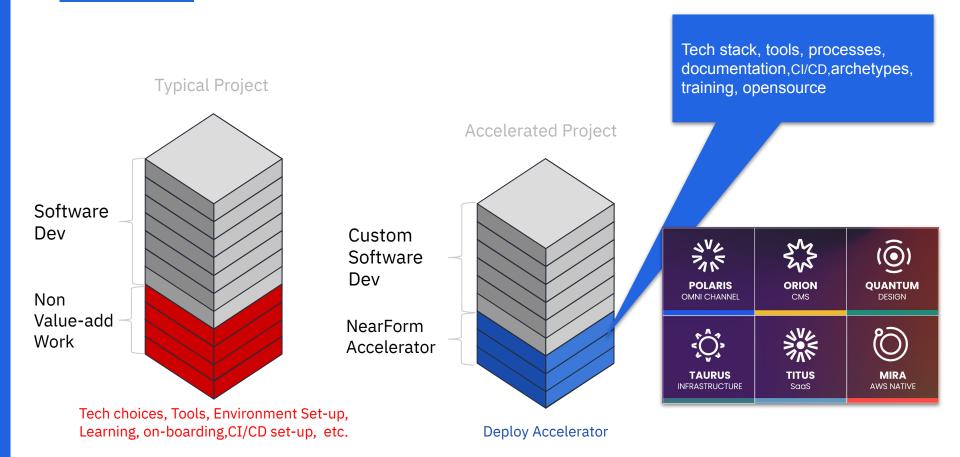




Engagement models Digital Enterprise Digital Solutions Strategic Guidance Deliver Transform Consult Trusted Advisor Research and Design Accelerated Enterprise **Technical Directors** Accelerated Development Training and Capability Business Framing Deployment Strategic roadmap Support

Opensource

NearForm Accelerators: for Development Projects



Polaris architecture









Developer Tools

Documentation Tools - <u>docsify</u>

Testing Tools - <u>Jest</u> & <u>Cyprus</u>

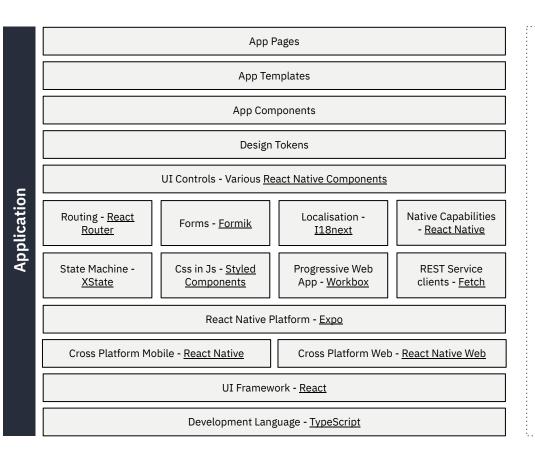
Linter - <u>ESLint</u> & <u>Prettier</u>

Bundler - <u>Expo</u> tooling

Component Development -<u>Storybook</u>

Security Tooling -(many tools)

Package Management - <u>Yarn</u>



Deploy Pipeline Tooling

Deployment

Automation & Security Tooling

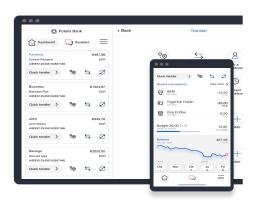
Continuous Integration System

NearForm Accelerators: Impact

OPEN BANKING







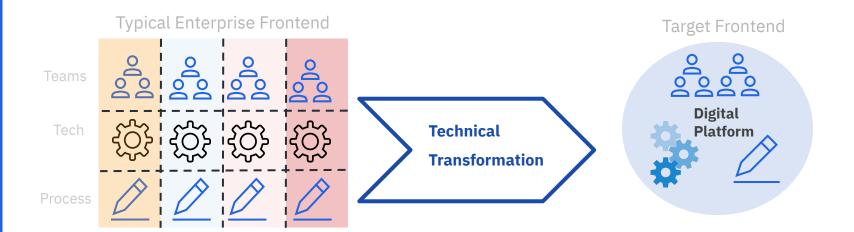


Scalability

Opensource

Platform Approach

NearForm Accelerators: Digital platform



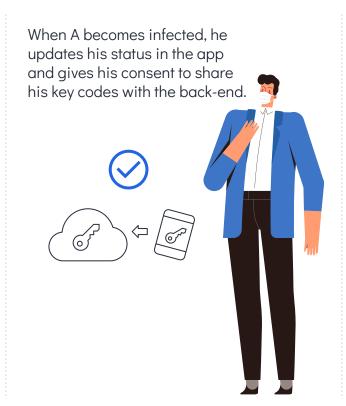
Contact Tracing / Exposure Notification

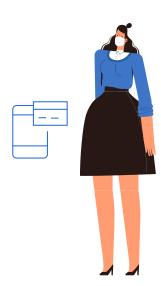


How Exposure Notifications Work



When A and B are near each other, their phones exchange anonymous key codes.





The app on B's phone regularly downloads the infected keys to check for matching codes. It alerts her that somebody she has been near has tested positive.

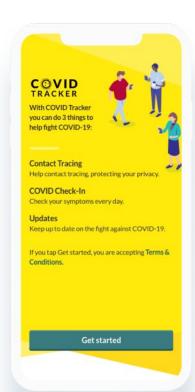
COVID Tracker App for Ireland

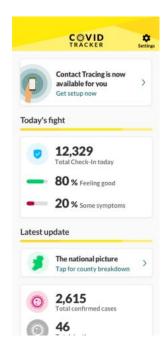
All-in-one application available in two languages - Irish and English.

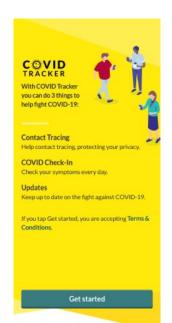
- Contact Tracing
- Symptom Check-In
- Information Updates

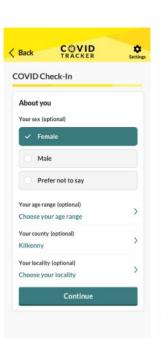
App installed by over 40% of adults in 4 weeks

137 confirmed app exposure notifications in 4 weeks

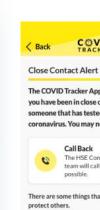












The COVID Tracker App has detected that you have been in close contact with someone that has tested positive for coronavirus. You may need to be tested.

COVID



There are some things that you should do to

- 1. Stay at home.
- 2. Do not go to work.
- Do not use public transport.
- Do not have visitors at your home.
- 5. Do not visit others, even if you usually care for them.
- Do not go to the shops or pharmacy unless it's absolutely necessary where possible order your proceries

SOLUTION HIGHLIGHTS

Jurisdictions: 9 to-date

Population Coverage: 53 million by September 2020

Average Uptake: 40% of addressable population

Delivery Time: 4-7 weeks

Average Security Issues: 0

Interoperability: World's first

Open Source: Code to Linux Foundation Public Health

https://github.com/covidgreen

Other Jurisdictions















Full circle to Open Source

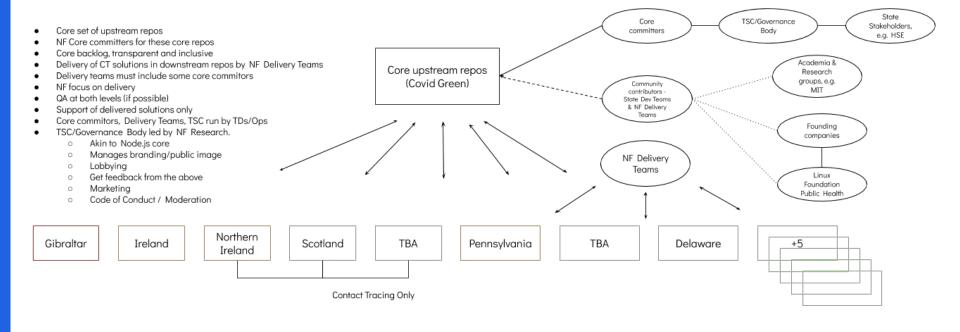
Benefiting even more from open source

NearForm worked with the Irish Government to donate the source code for their app to the not-for-profit Linux Foundation Public Health, for use by any PHA to help fight COVID-19.

COVID Green benefits from the inputs of many countries, states and vendors.



Scaling



Outro

Outro:

Questions we feel we have raised today....

- (1) Open Banking what is the feeling US/UK on what's next?
- (2) Frontend Technical Debt are Accelerator frameworks part of the answer?
- (3) Covid Story is this really an opensource coming of age story too?

Link to open banking page: https://community.nearform.com/api-banking

Covid Green: https://github.com/covidgreen





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