

ARCHITECTURAL PATTERNS GROUP ACTIVITIES 2017



Workshop on Modernization of Statistics 21 - 22 November
Trygve Falch (Statistics Norway)

COUNTRIES INVOLVED

- France - Romain Tailhurat
- Italy - Marco Silipo, Mauro Bruno
- Norway - Trygve Falch (Chair)
- Netherlands - Ronald Ossendrijver
- Sweden - Jakob Engdahl, Hakim Sjöström, Henrik Lönnström
- UK - Eric Deeben, Neville DeMendonca
- Eurostat - Jean-Marc Museux
- UNECE - Taeke Gjaltema

ACTIVITIES IN 2017

- Face to face meeting at ISTAT, Rome, 3-5 May
- Responsible for the Assembler track at *Implementing The Common Statistical Production Architecture Workshop* - Wiesbaden, Germany, 3-5 July
- Providing input for the next version of the CSPA standard
- Starting the work on a CSPA Cookbook



**Business
Architecture**

GSBPM

Information Architecture

GSIM

CSPA 1.5

CSPA LIM

Application Architecture

?

Technology Architecture

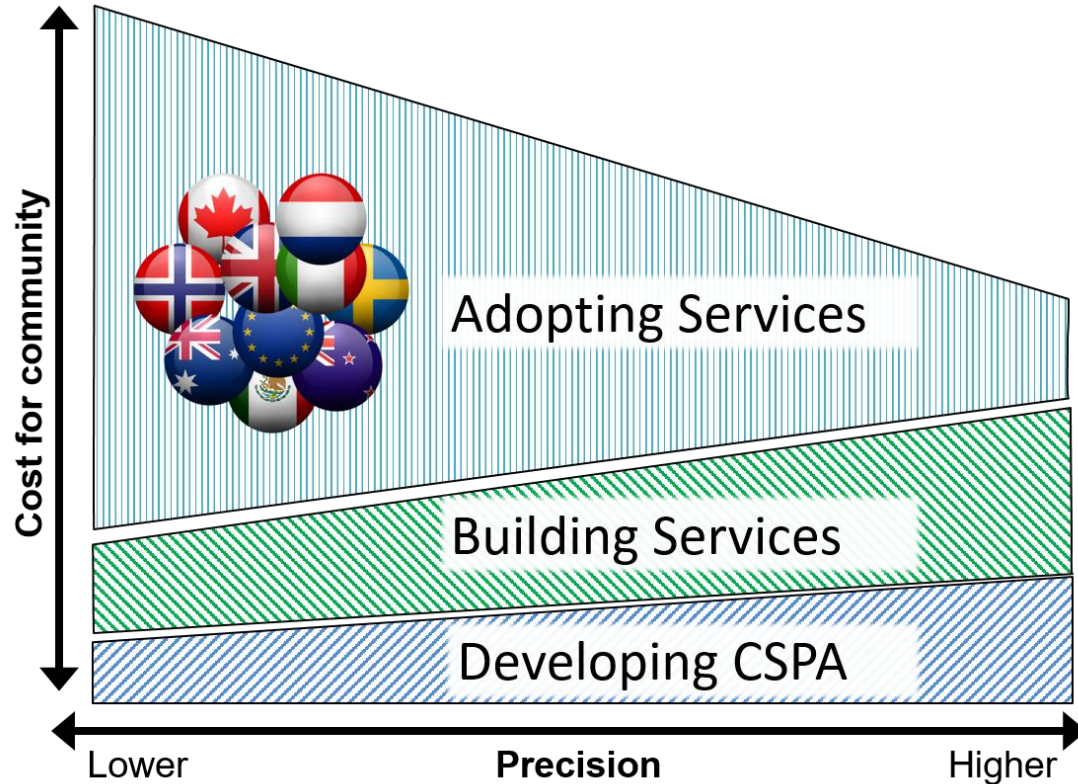
**We need to address
the gap in the
specification to
make re-use/sharing
easier**

"MISSION STATEMENT"

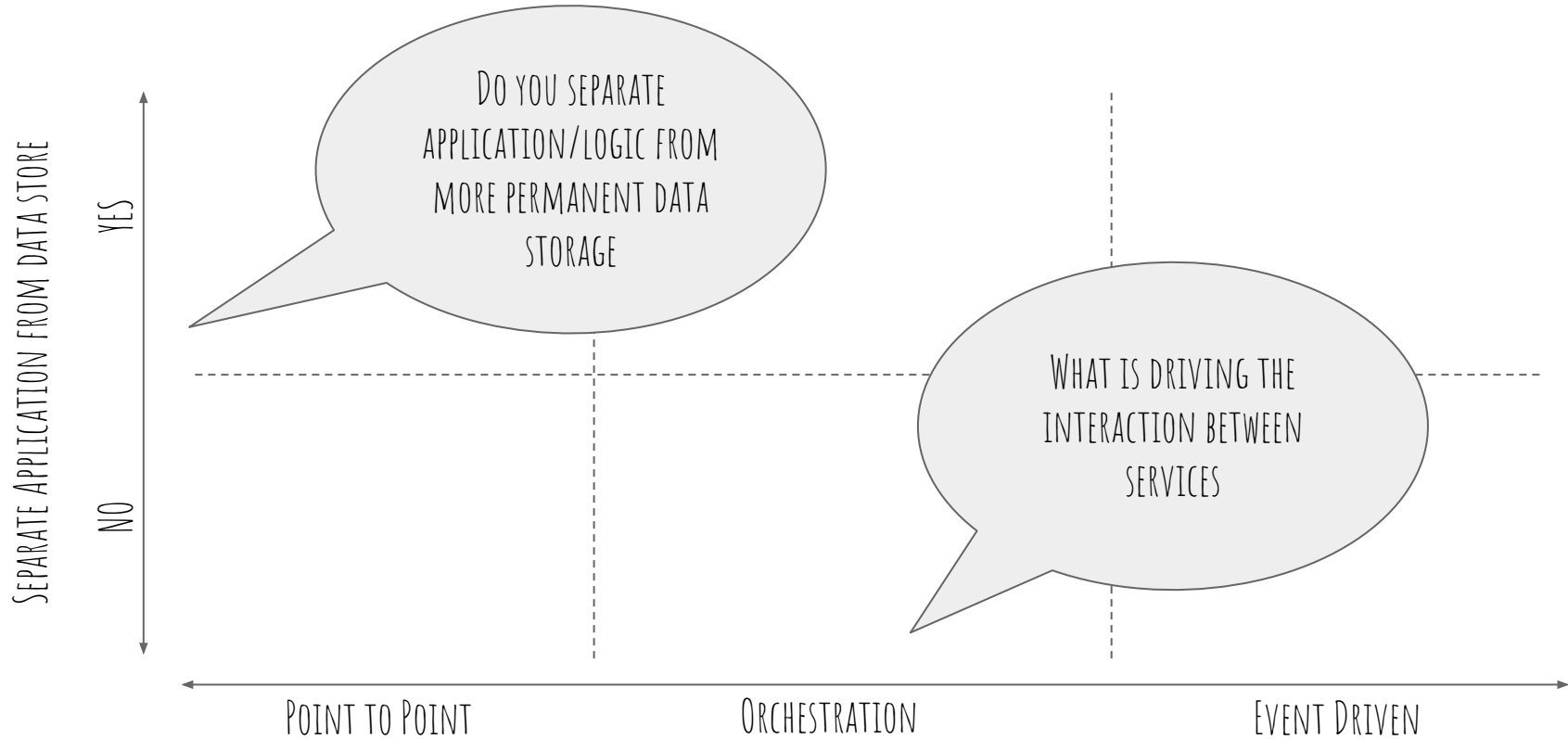


- Close the gap!
- Address key architectural patterns that enables reuse of CSPA services
- Give value to NSI's existing investment
- Make it easier to create and share CSPA services
- Encourage Open Source!

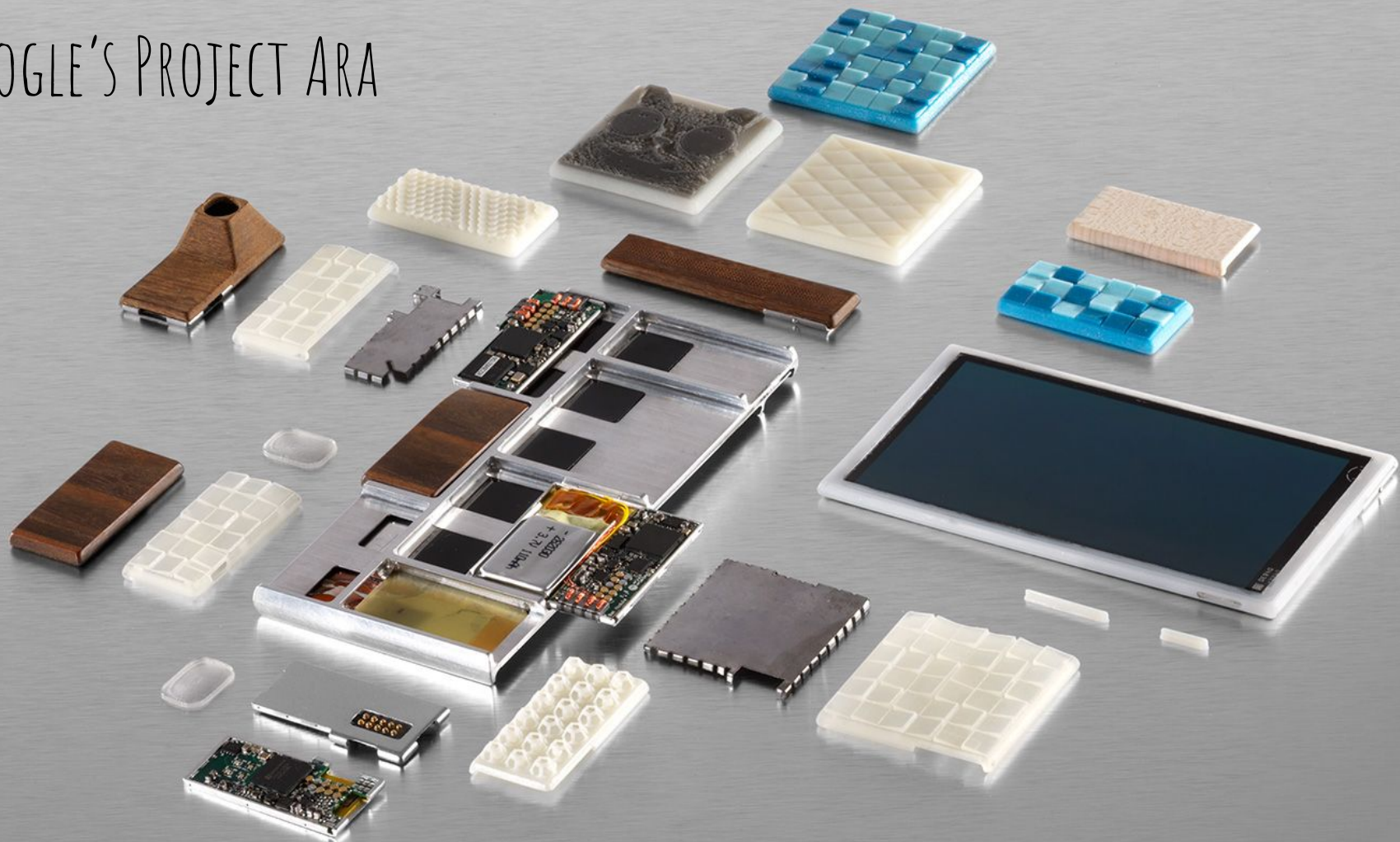
THE LACK OF SPECIFICITY HAVE A COST



ARCHETYPES



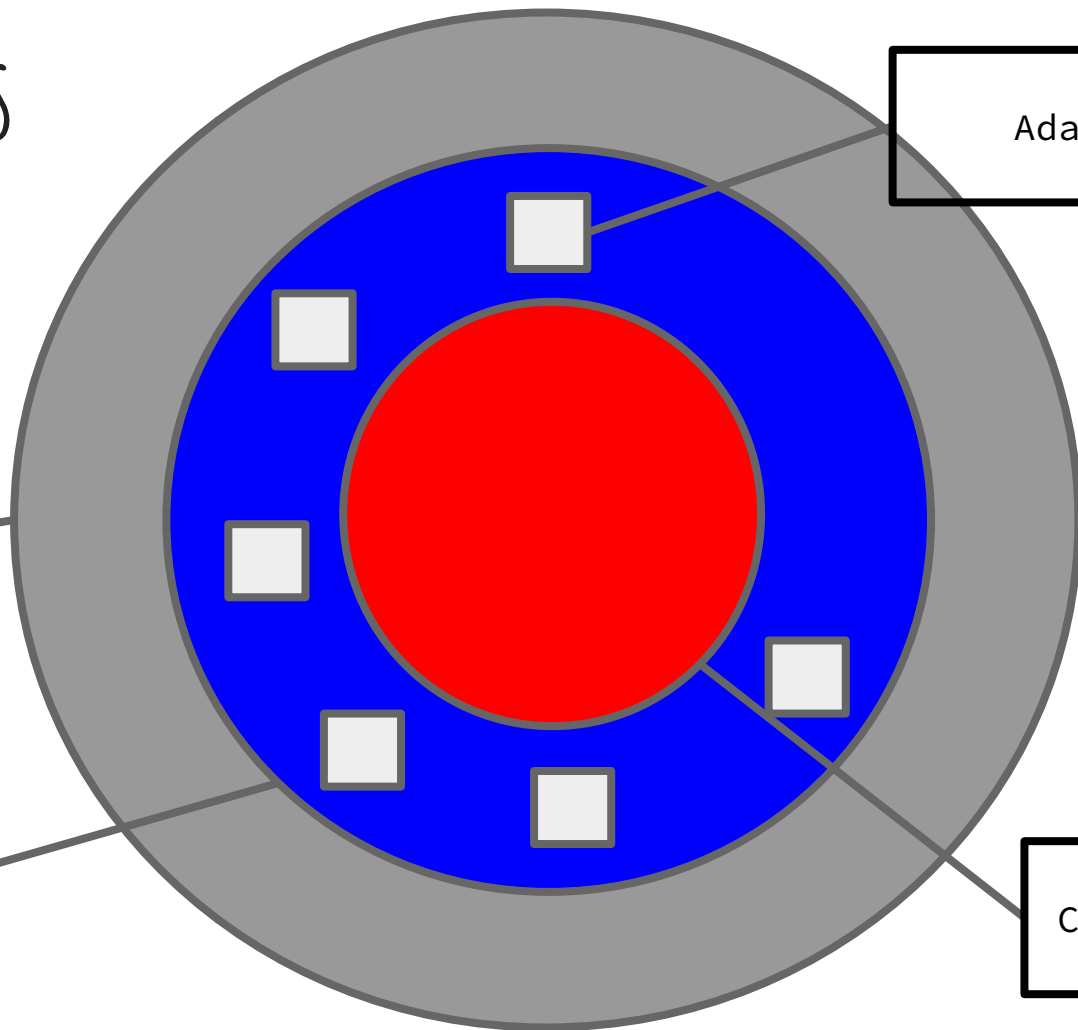
GOOGLE'S PROJECT ARA



DIFFERENT LAYERS THAT AFFECT SHARING

Packaging and
distribution

CSPA Service
w/adaptors



Adaptors

Core Logic

SHAREABILITY SCALE

Not modular

Fully modular



“I get an immediate benefit from this service even if i should adapt my process to the **communication adaptor**”

“I can change the **data adapter** of this service by developing my own version but i still get the **core logic**”

CSPA & ALGORITHMS

ALGORITHMIA AI Marketplace Serverless AI Layer Enterprise Docs Pricing SIGN IN

Search the AI Marketplace



Text Analysis

Make sense of unstructured text



Machine Learning

Teach your app to teach itself



Computer Vision

Identify objects in images



Deep Learning

Learn from your data

Popular Tags:

Utilities

Microservices

Web Tools

Time Series

Sentiment Analysis

Browse all algorithms:

★ Top Rated

👤 Most Called

🕒 Recently Added



Colorful Image Colorization

deeplearning/ColorfulImageColorization

Colorizes given black & white images.

<http://algorithmia.com/>

- Algorithms are core capabilities => Core Logic
- Connection between CSPA ArchPat group and the proposed *Statistical Methodology Architecture project*
- Library of statistical methods, algorithms (and trained ML models?)