

Sharing Clinical Research Data

HL7 Efforts to Support Clinical Care Data

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“How much easier it is to be
critical than to be correct.”

- Benjamin Disraeli

HL7 is...

People

almost all volunteers

thousands of them,
all around the world.

HL7 is...

Ideas

some really
innovative ones.

HL7 is...

Collaboration

with
technology developers,
advocacy organizations,
and caregivers,

with
academic centers,
standards developers,
and
public health agencies,

with
big Pharma
and little Biotech,

and even
with
Government.

HL7 doesn't provide
patient care.

We make caring
for patients
safer.

HL7 doesn't
write software.

We make
writing software
more intuitive.

HL7 doesn't
do clinical research.

We make
doing clinical research
more effective.

HL7 doesn't
pay for healthcare.

We make
paying for healthcare
less costly.

HL7 is more
than messaging.

“The plural of anecdote is
not data.”

Chris Chute, MD

HL7 is about...

Information Models (RIM & BRIDG),
Domain Profiles,
Deployment tooling,
Implementation guides,
Decision Support,
Lab data exchange
Quality measurement,
Public Health reporting,
Mobile Health implementation,
and Genomics integration.

HL7 is about
managing biomedical data
across the broad spectrum
of healthcare.

“There is nothing so useless as doing
efficiently that which should not be
done at all.”

- Peter Drucker

At HL7,
there are some innovations
just worth talking about.

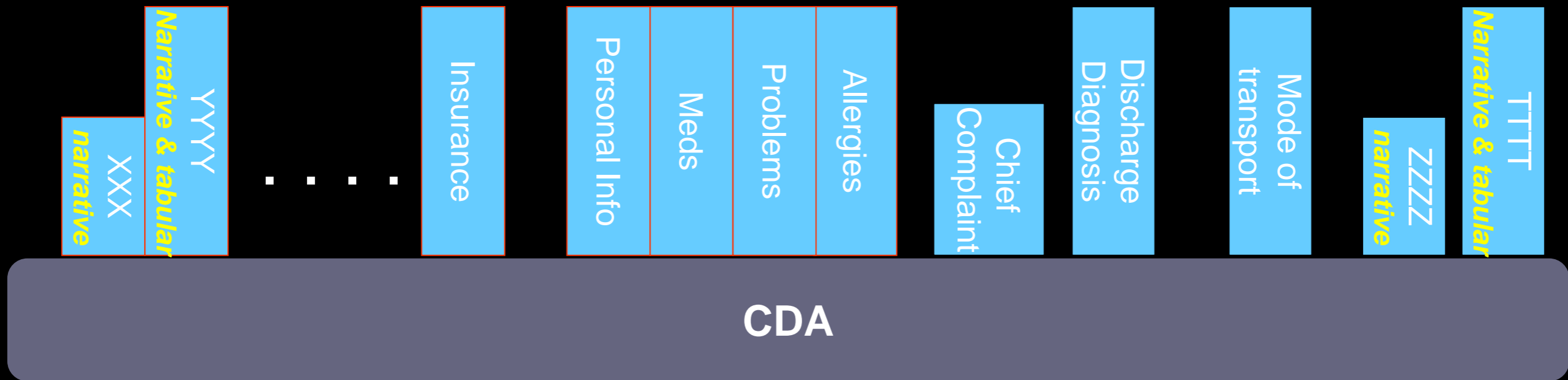
CDA

*Clinical Document Architecture

CDA

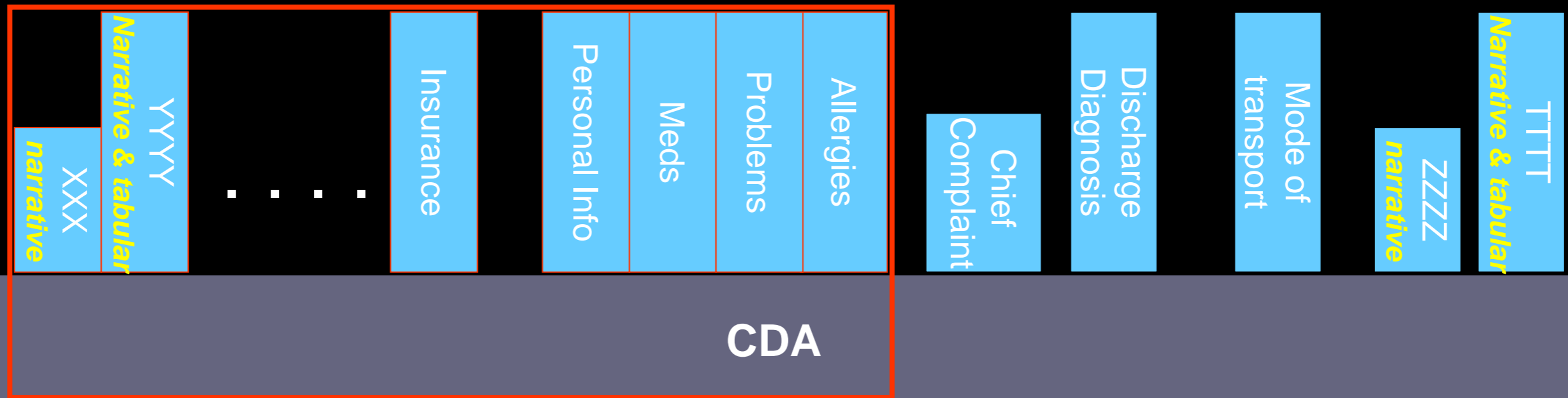
is an envelope,
created with XML,
able to contain documents,
images,
even waveforms,
that protects the integrity
of the content.

*Populated with one or many
data elements*



CDA constrained by the elements of the Continuity of Care Record

CCD

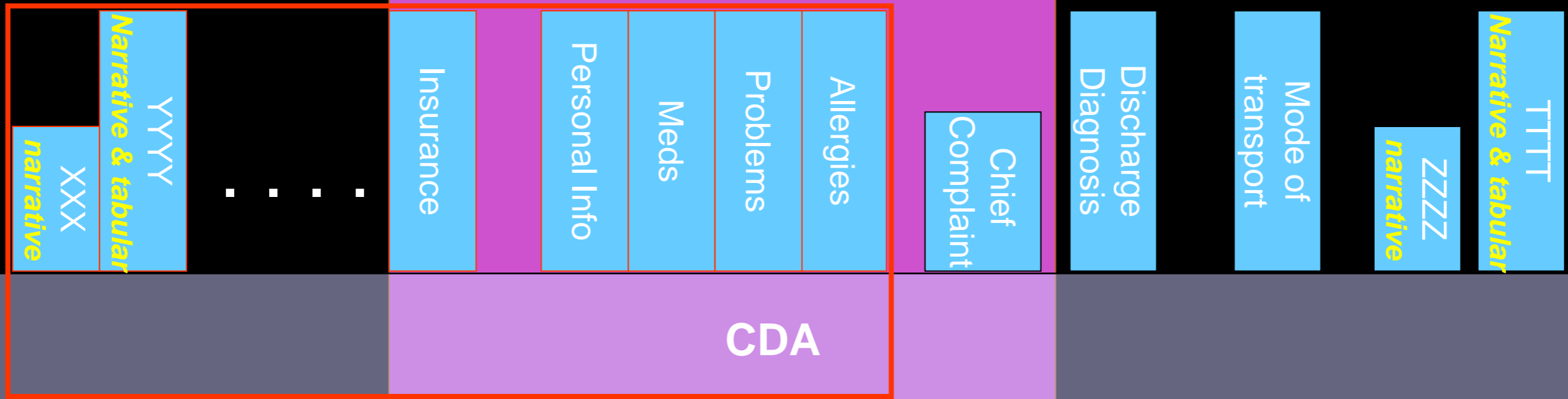


A CCD Plus Document –

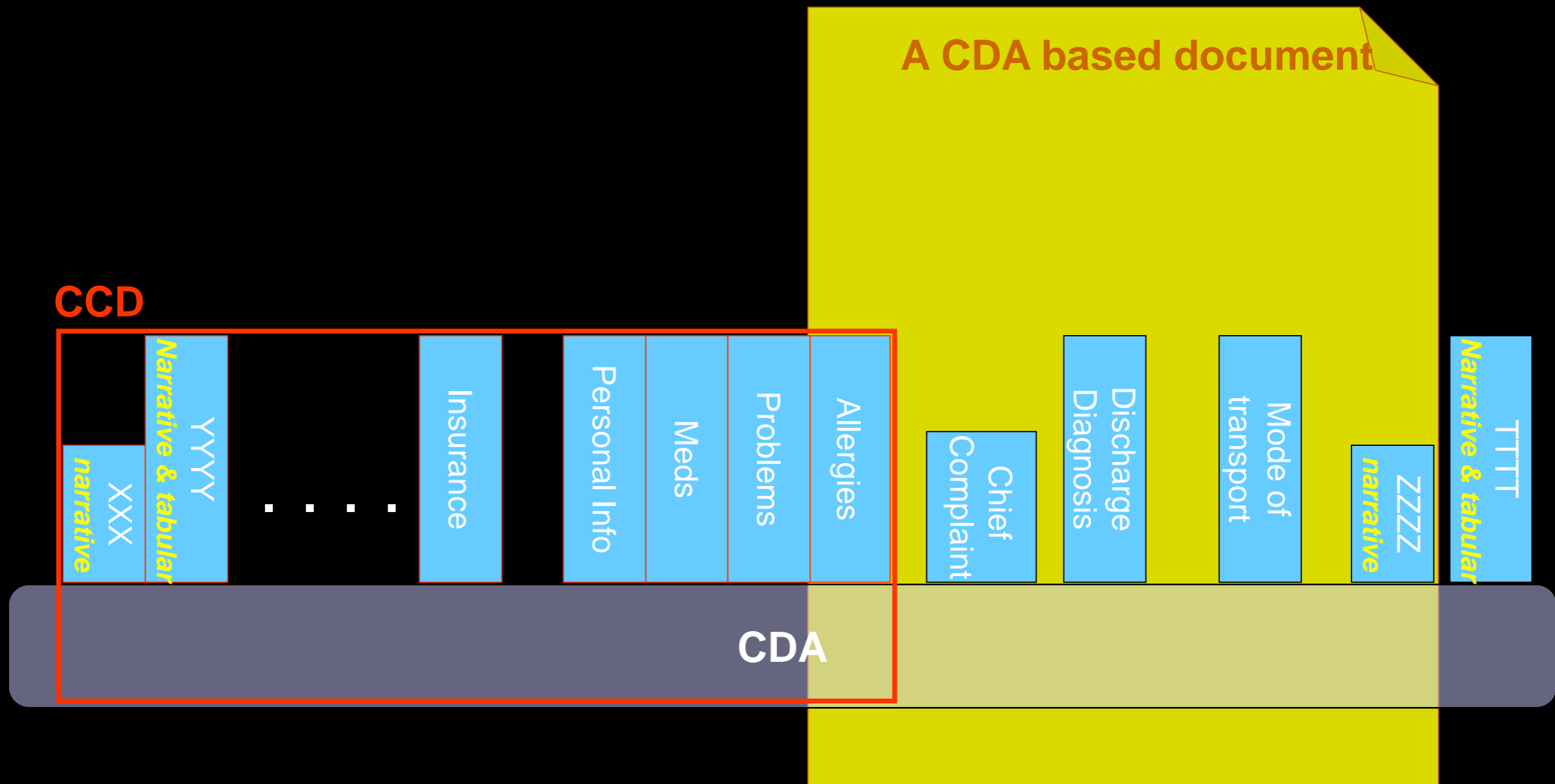
The CCD plus a chief complaint

A CCD+ based document

CCD



A CDA-based Document – using only selected data elements



CDA is
faster, easier, and cheaper
to implement,
because its templates
are reusable.

Some Current Applications of CDA

- Patient records & clinical summaries
 - Public Health reporting (CDC)
 - Clinical Decision Support (CDSC)
 - Quality Measures (NQF & NCQA)
 - Personal Health Records (Finland, Brazil)
 - ePrescribing (epSOS Project in EU)
- ...and of course, Meaningful Use

Trifolia

A technology for storage, retrieval, archiving and creation of templates for CDA, built with a unique template exchange language.

“If you’re doing something
the same way for ten
years, the chances are
you are doing it wrong.”

- Charles Kettering

HL7 has introduced some innovative initiatives to maximize healthcare data reuse.

CIMI

Clinical Information Modeling Initiative
established by HL7,
developed through the collaboration of 5 SDOs,
4 healthcare systems, and
3 national healthcare bodies



FHIR

Fast Healthcare Interoperability Resource
Is a framework for the development of data
exchange technology that offers the
interoperability of the RIM, but hides the
complexity of V3.

“Knowledge is knowing that a
tomato is a fruit.
Wisdom is not putting tomatoes
in a fruit salad.”

- Peter Kay

HL7 is about
collaboration.

“If you want to go fast,
go alone.

If you want to go far,
go together.”

- African Proverb

Thanks

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