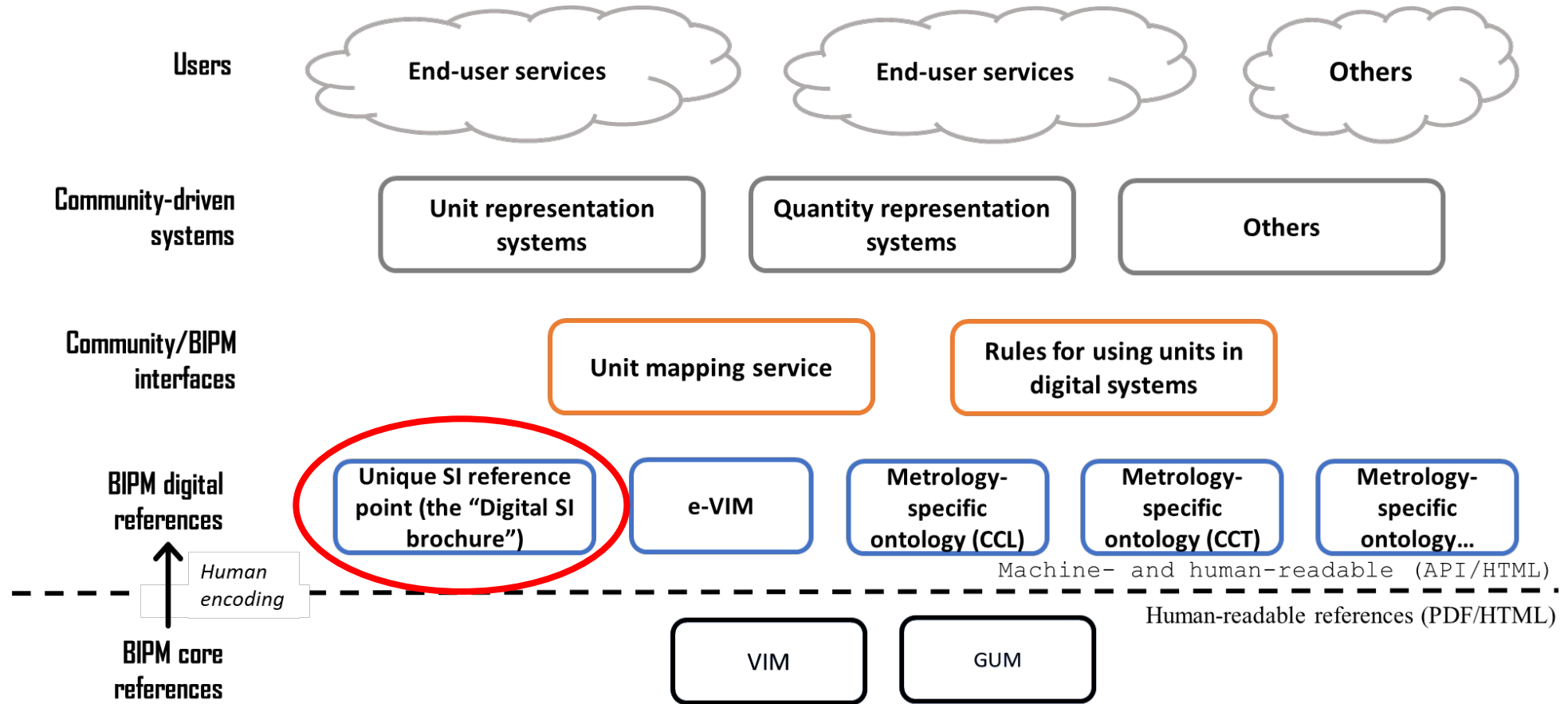


The Interoperability Plane: Interoperable and Reusable

Draft



The SI Brochure

Le Système
international d'unités
The International
System
of Units

SI

The ultimate reference book on the International System of Units (SI)

Definitions

Decisions

Historical
information

Bureau
◆ **I**nternational des
◆ **P**oids et
◆ **M**esures

The SI Brochure... A book!

9 th edn	
Chapter 1	Introduction
Chapter 2	The International System of Units
Chapter 3	Decimal multiples and sub-multiples of SI units
Chapter 4	Non-SI units that are accepted for use with the SI
Chapter 5	Writing unit symbols and names, and expressing the values of quantities
Appendix 1	Decisions of the CGPM and the CIPM
Appendix 2	Practical realization of the definitions of some important units
Appendix 3	Units for photochemical and photophysical quantities
Appendix 4	Historical notes

What do we need?

A machine-readable version...

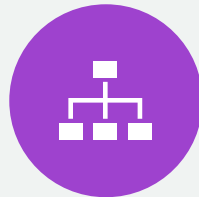
Not a book!

Human-readable reference	Machine-readable reference	The key definitions in the SI
<ul style="list-style-type: none">• HTML/PDF• DOIs	<ul style="list-style-type: none">• Structured data• PIDs• APIs	<ul style="list-style-type: none">• SI units• SI prefixes• Defining constants

XML?



Heavy



Structured - to a certain extent



*Semantic understanding
- can be built in (special thanks to Ron Tse!)*



*Publication process...
Through middle-ware
can lead to production
of a PDF, HTML etc.*



What's missing??

The Unique SI Reference Point

Single point of truth

Described in a document presented to the Expert Group's Steering and Coordination Team and demonstrated to the Expert Group through a prototype

Due thanks to:

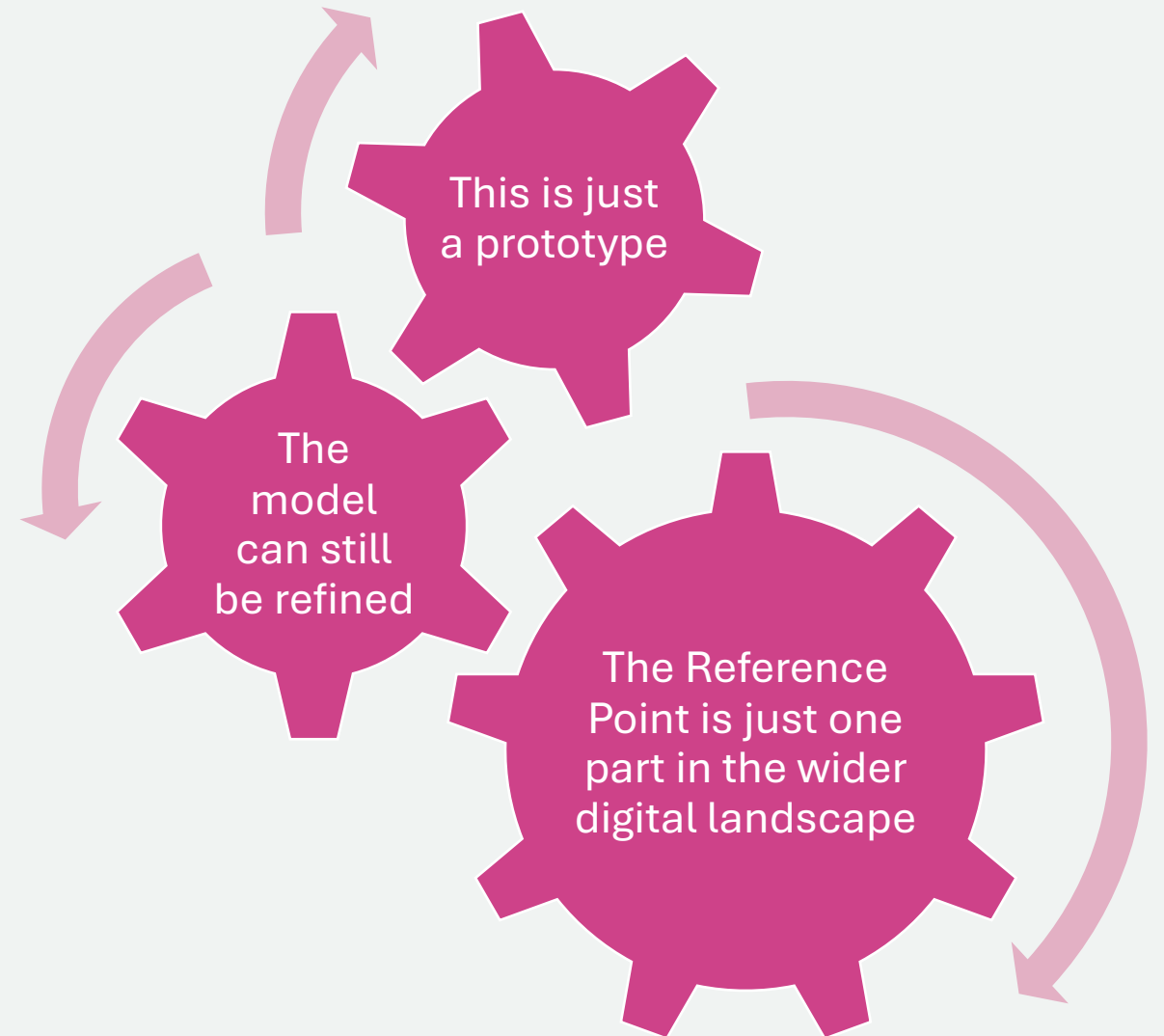
Stuart Chalk (UNF)

Martin Milton and Michael Stock
(BIPM)

Ron Tse (Ribose Inc.)

Bob Hanisch (NIST), Blair Hall
(MSL), Ryan White (NRC)

Please bear in mind...



The Unique SI Reference Point

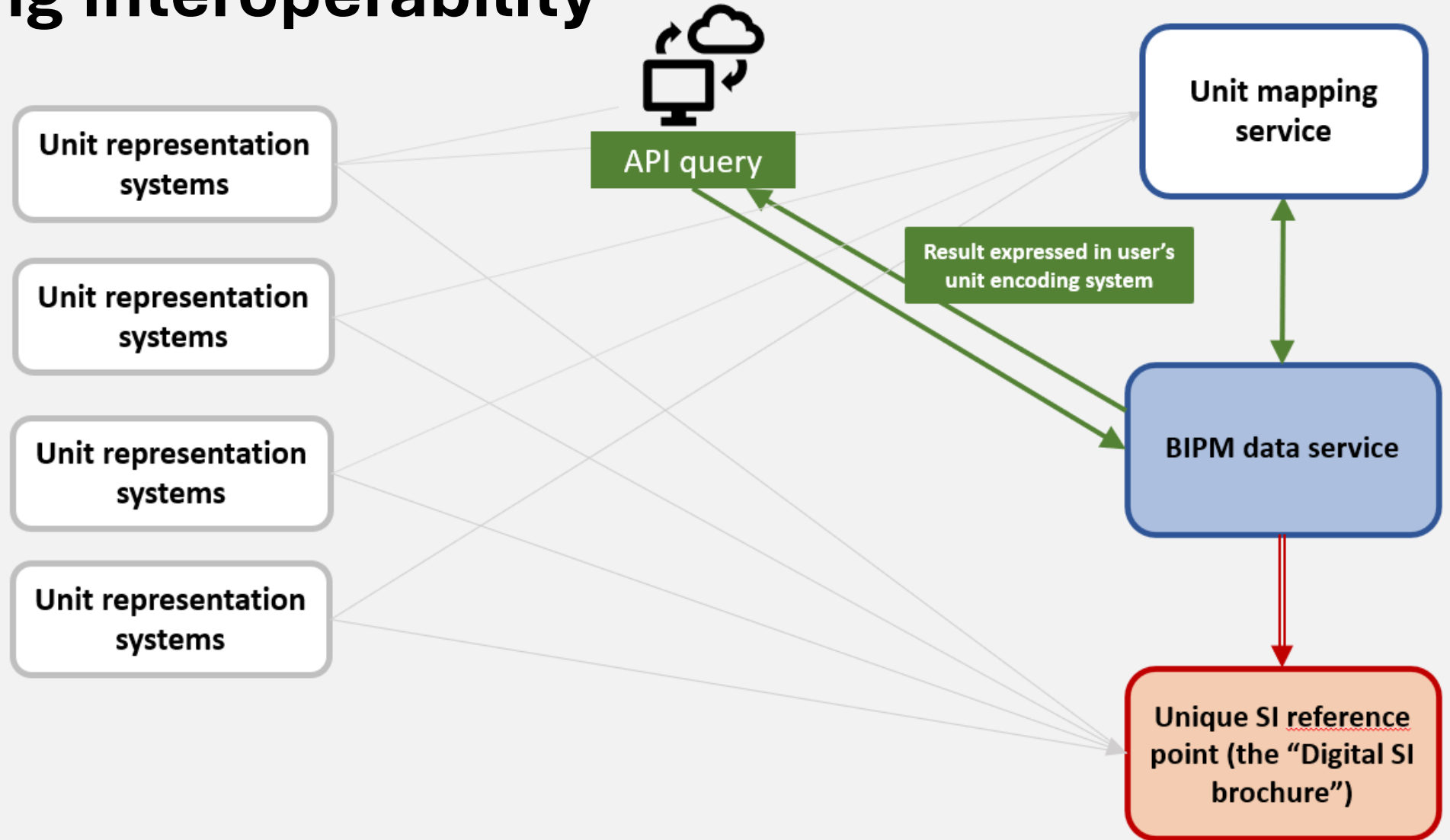
Prototype for demonstration and discussion purposes

<https://siunits.stuchalk.domains.unf.edu/>

Example: nanosecond (ns)

<https://siunits.stuchalk.domains.unf.edu/si/definition/unit/nanosecond>

Facilitating interoperability





Thank you

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 International des
 Poids et
 Mesures