

# P1752 Working Group Meeting

Sponsored by IEEE Engineering in Medicine & Biology (EMB) Standards Committee

Please mark your attendance at:  
<https://tinyurl.com/yc3oxg6q>  
(see chat window)

10 March 2020  
Teleconference

# Attendance

This document shows attendance from previous calls <https://tinyurl.com/yc3oxg6q> (link in the chat window of join.me). **If you attended the call, please verify that your name is listed**

- If not, email [simona@openmhealth.org](mailto:simona@openmhealth.org)

**Put your name and affiliation in the chat window for attendance today.**

- If your name is not listed, or if you are joining only via phone, please email [simona@openmhealth.org](mailto:simona@openmhealth.org) with “P1752 WG call” as subject

Attendance is important for determining voting rights, so please remember to “check in”

Voting rights are granted according to the P&P after attending two consecutive calls and by explicit request to the Secretary (Simona)

# IEEE Patent Policy

# **Participants have a duty to inform the IEEE**

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential  
Essential Patent Claims is encouraged**

**Slide #1**

# **Ways to inform IEEE**

- **Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or**
- **Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or**
- **Speak up now and respond to this Call for Potentially Essential Patents**

**If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair**

**Slide #2**

# Other guidelines for IEEE WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
  - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
  - Don't discuss specific license rates, terms, or conditions.
    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
      - Technical considerations remain the primary focus
  - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
  - Don't discuss the status or substance of ongoing or threatened litigation.
  - Don't be silent if inappropriate topics are discussed ... do formally object.

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For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and  
*Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

Slide #3

# Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- *IEEE-SA Standards Board Bylaws*  
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- *IEEE-SA Standards Board Operations Manual*  
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at  
<http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at  
**patcom@ieee.org**

# Determination of Quorum

<https://tinyurl.com/yc3oxg6q>

# Approval of Agenda

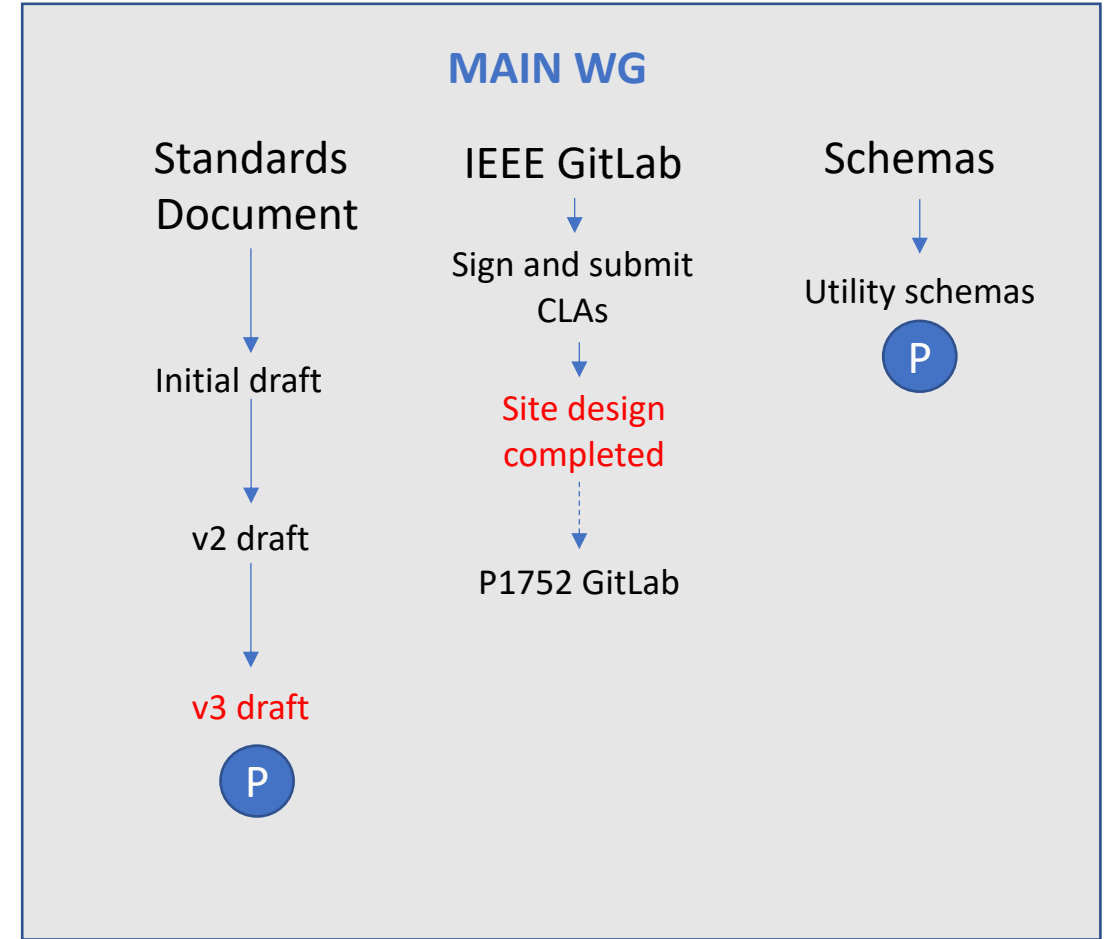
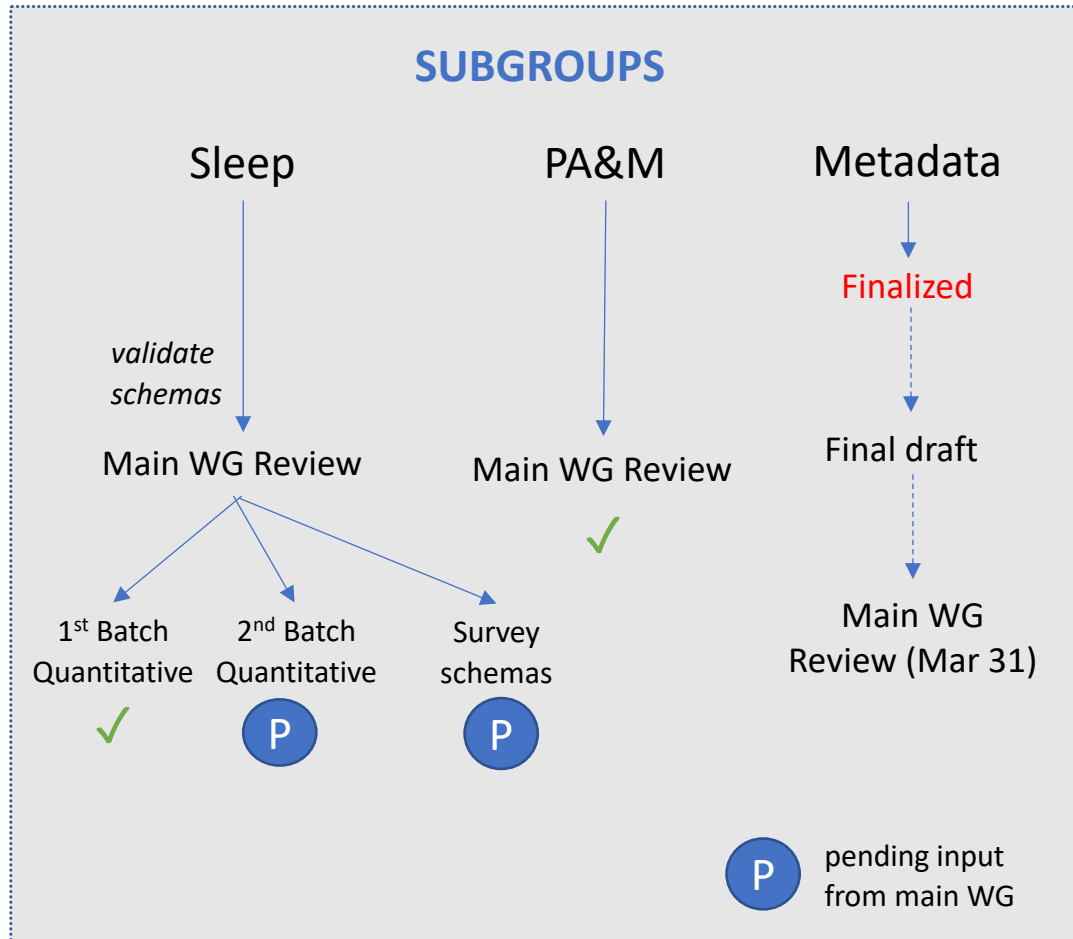
1. Attendance
2. Call for Patents
3. Approval of agenda and of prior minutes (if quorum present)
4. Subgroup updates
5. Discussion: generic survey schemas
6. Other business

# Approval of Prior Minutes

(none)

# Progress Towards Balloting

# Workstreams



# Update: Sleep Subgroup

# Sleep Schema Subgroup Update

## ➤ Status and Next Steps

### Quantitative sleep measure task group:

- Completed addressing the 1<sup>st</sup> set of schemas based on WG review comments
- Modifying 2<sup>nd</sup> set of schemas based on WG review comments (in progress)

### Qualitative sleep measure task group:

- Received some WG comments
- Review and address the comments (TODO)

### ➤ Sleep schema subgroup meeting slides/minutes:

<http://sites.ieee.org/sagroups-1752/sleep-subgroup-meeting-materials/>

- Next subgroup meeting: April 7, 2020 11:30am to 12:30 pm
- Info on the sleep group: email [charlotte.chen@Philips.com](mailto:charlotte.chen@Philips.com) or [Simona.Carini@UCSF.EDU](mailto:Simona.Carini@UCSF.EDU)

# Summary of WG Review Comments on Survey Schemas

---Propose that we use the word "generic" only for the generic surveys and we use "sample" for the sample surveys showing how to use the generic surveys

---Simplify some things where possible and also to show how the survey can be used to ask questions close in time to the event:

- (1) To clearly distinguish our sample questionnaires from validated ones;
- (2) To show the potential to deliver a digital survey;

---Ensure consistency of notation

---Suggest to include sample data to show:  
a survey score  
incomplete or missed surveys

Update:  
Draft Standard Document

# Version 3 (distributed in January)

- This will be the candidate for ballot, once two people's comments are incorporated
- If you have not yet accessed iMeet and you cannot find an email invitation, email [simona@openmhealth.org](mailto:simona@openmhealth.org)

# “Utility” Schemas

- No comments received
- Candidates for ballot:
  - Unit Value Schemas available at <https://ieeesa.imeetcentral.com/omh/folder/WzlwLDEyNDgxNTY3XQ/>
  - Value Set Schemas available <https://ieeesa.imeetcentral.com/omh/folder/WzlwLDEyNDgxNjEzXQ/>
  - Time-related Schemas available <https://ieeesa.imeetcentral.com/omh/folder/WzlwLDEyNDgxNjExXQ/>

# Report from: Metadata Subgroup

# Metadata Subgroup Update

- Draft of minimum metadata schemas almost completed
- Sample data being drafted
- Slides available on subgroup webpage: <http://sites.ieee.org/sagroups-1752/metadata-subgroup/>
- Next call, March 17 at 9 am Pacific
- Let Simona ([simona@openmhealth.org](mailto:simona@openmhealth.org)) know if you are interested in participating

# P1752 Metadata Subgroup

Subgroup chair: Ida Sim, Open mHealth / UCSF

Subgroup secretary: Anand Nandugudi, U Memphis

## Members

Pradeep Balachandran

Jakob Bardram

Daniela Brunner

Christina Caraballo

Simona Carini

Paul Harris

Shivayogi Hiremath

Sean McConnell

Leonard Njeru Njiru

Henry Ogoe

Paul Petronelli

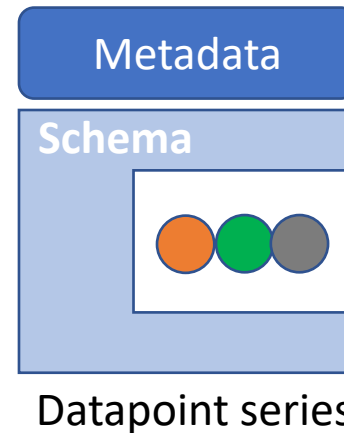
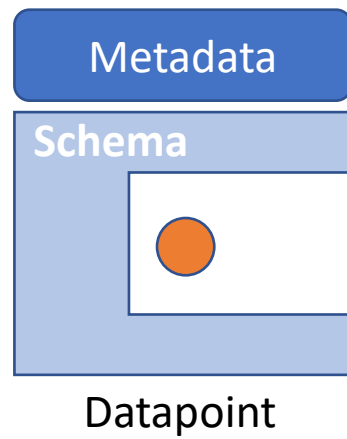
Udi Rubin

Anna T

# Datapoint ID

# Datapoint versus Datapoint series

- Schema can be used for instances of arrays of observations (i.e. a series) not only a single datapoint
- Metadata must be identical for every data point in the series.
- Unique ID assigned to the datapoint or datapoint series, not to each observation in a series



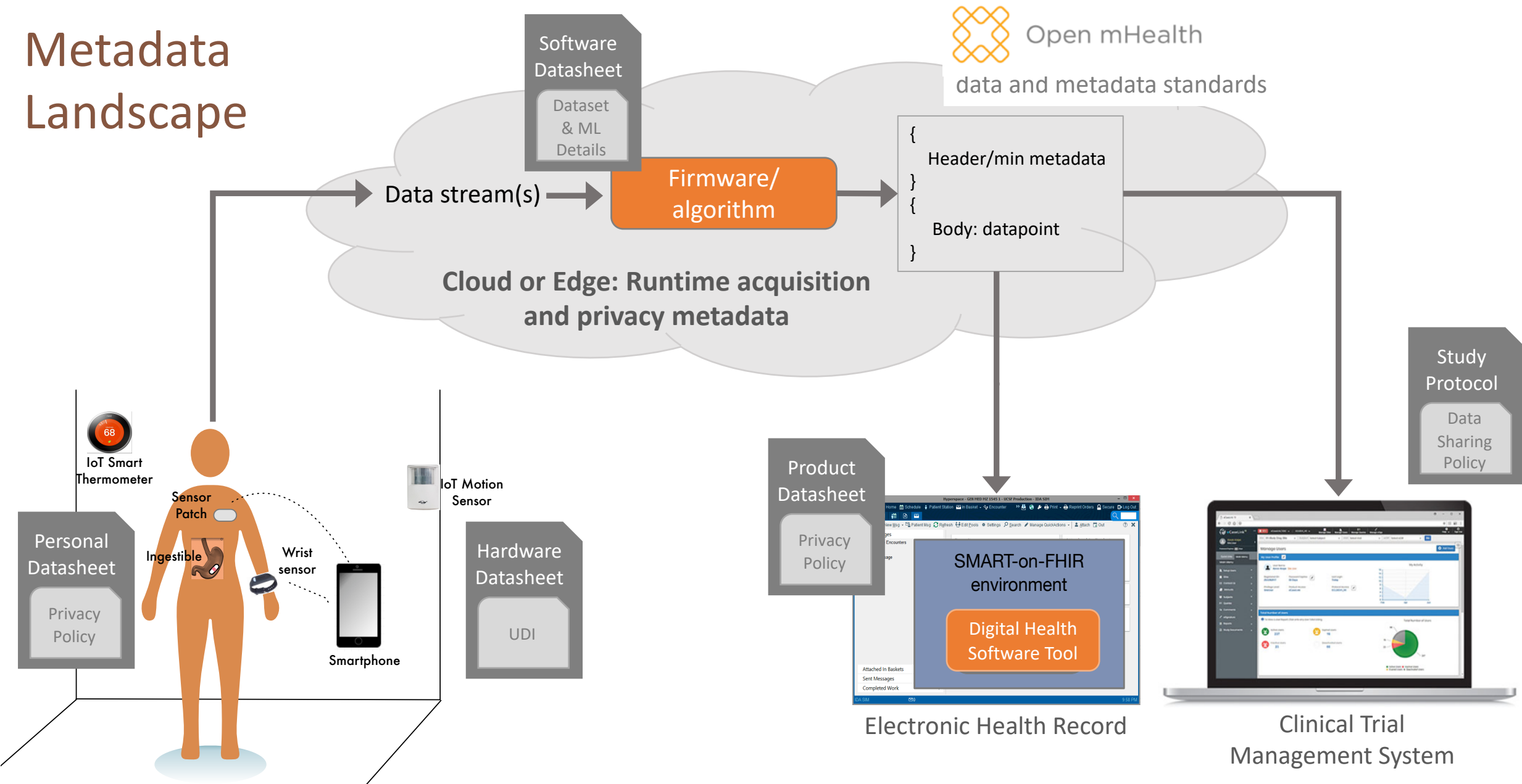
JSON arrays are ordered

# UUID

- Every P1752 instance will have a UUID (Universally Unique Identifier) generated per RFC 4122
- UUID (16 bytes; 32-char string)
  - The RFC 4122 version information is contained in the 128 bit message itself (unless otherwise specified)
  - Encryption is strongly recommended; newer encryption protocols will evolve and should be used
  - As well, users may decide to implement their own solutions to ensure that they are protected from possible violations of CCPA and GDPR

# Mininum Metadata: Proposal

# Metadata Landscape



# Metadata Elements: Datapoint

Needs	Property (bold = required)	Example
Which datapoint is this?	<b>UUID (datapoint/datapoint series)</b>	<b>Generate using RFC 4122</b>
What does this value represent?	<b>schema ID and schema metadata</b>	<b>Pointer to the stress datapoint schema</b>
When is the effective time of this data?	[in the datapoint itself]	

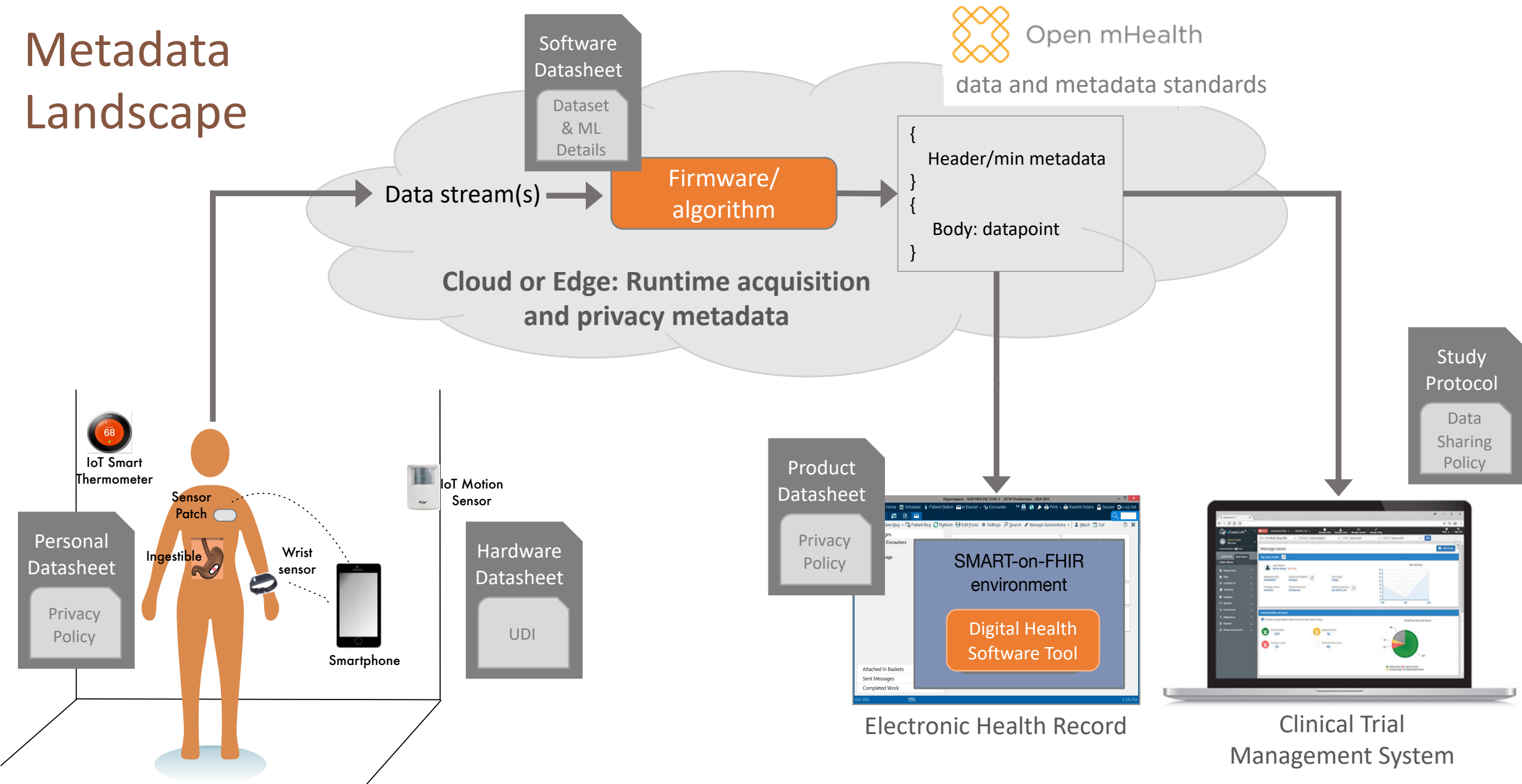
# Metadata Elements: Acquisition

Needs	Properties (bold = required)	Example
When was this datapoint (or the datapoint series) created at the original source? If the datapoint is aggregated later, the date does not change. If the datapoint is recalculated later (e.g., using a different algorithm), a new datapoint is created with a different id and creation date.	<b>source_creation_datetime</b> date-time schema represents a point in time (ISO8601). Timezone is UTC unless otherwise specified	<b>2019-08-01T07:01:00Z</b>
Was the datapoint sensed or self-reported?	modality	<b>sensed</b>
If data was acquired with a periodic rate, what was the rate?	acquisition_rate	<b>Value : 100 Unit : Hz</b> OR number_of_times: 2 time_window: value: 1 unit: d

# Metadata Elements: Source

Needs	Properties (bold = required)	Example
What firmware/algorithm? What hardware? What app/product? Which person? Which study?	Pointer(s) to <i>Software Datasheet</i> , <i>Hardware Datasheet (UDI)</i> , <i>Product</i> <i>Datasheet</i> , <i>Personal Datasheet</i> ( <i>User ID</i> ), <i>Study Datasheet (Study</i> <i>ID)</i>	Datasheet type {software, hardware, product, personal, study} Pointer: IRI

# Metadata Landscape



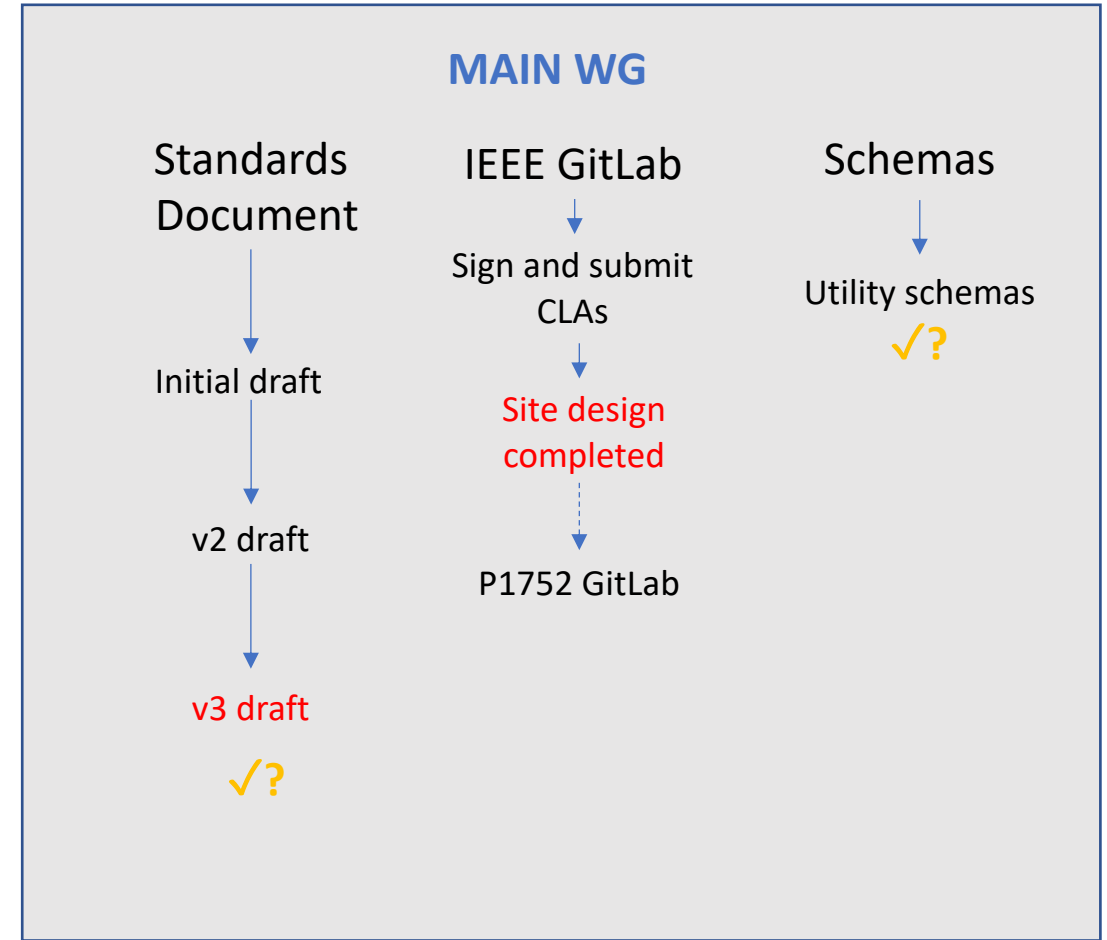
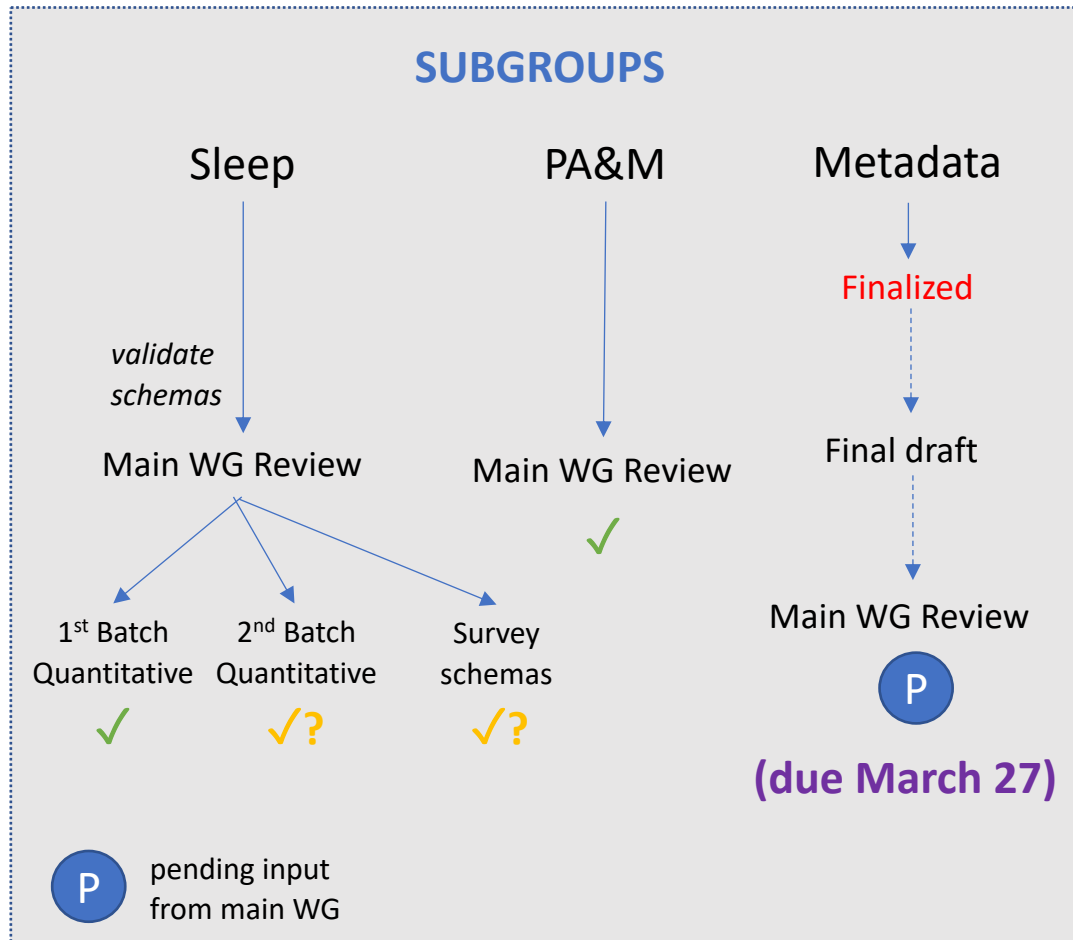
# Future Work

# Metadata Next Steps

- Finalize metadata schema and generate sample data
- Subgroup discussion
- Main WG review and discussion

<div> Today &lt; &gt; March 2020 <div> <div></div> <div></div> <div></div> <div>Month</div> <div></div> </div> </div>						
SUN Mar 1	MON 2	TUE 3 Super Tuesday (region)	WED 4	THU 5	FRI 6	SAT 7
8 Daylight Saving Time	9	10	11	12 Subgroup distribution	13	14
15	16	17 St. Patrick's Day Subgroup discussion	18	19 Main WG distribution	20	21
22	23	24	25	26	27 Main WG comments due	28
29	30	31 Main WG discussion	Apr 1	2	3	4

# Workstreams – send comments by **March 27**



# Timeline Proposal for Draft Review

- March 10 WG call
  - DISCUSSION: 2nd batch of quantitative sleep schemas + generic survey schema
  - INTRO: Metadata schemas
    - Schemas and sample data to be distributed March 19, comments due March 27
- March 31 WG call
  - DISCUSSION: Metadata schemas
  - PRESENTATION/DISCUSSION: rest of draft ballot, processes for review, GitLab readiness, etc.
    - Whether GitLab site is public from outset or not
  - Voting rolls and procedures
- Presentation of full draft ballot and voting, after IEEE editorial review and approval to move to ballot

# P1752 WG Steps

- Access documents and submit comments to iMeet Central
  - Contact [simona@openmhealth.org](mailto:simona@openmhealth.org) if you need assistance getting onto iMeet
- Sign CLAs and provide them to IEEE
- Let Simona know you have obtained CLA number (do not share the #)
- For entity CLAs, let me know the name of the people covered by it
- P1752 OS site deployment in progress

# Summary of Action Items

# Future Meetings

# Upcoming Meetings

- Main WG
  - March 31, 2020: 8 AM (Pacific)
- Sleep subgroup
  - April 7, 2020 8:30 am to 9:30 am (Pacific)
- Metadata subgroup
  - March 17, 2020 9:00 am to 10:00 am (Pacific)

# Adjournment