



Optimizing AI software for automated PPD & CCI Protection

Honz Slipka, MSc
Senior Transparency Specialist

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Agenda

Objectives

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Objective

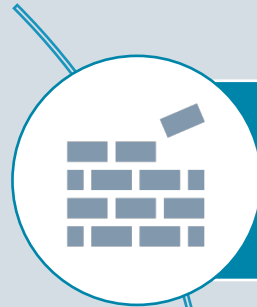
PROACTIVE DISCLOSURE WITHOUT EXPOSURE

Clinical data to support pharmaceutical application for human medicines is submitted to regulatory publications for public disclosure.

Personal data must be protected

Submission must comply with regulations

Emphasis should be on transparency



STRUCTURE

- avoid duplication of clinical trials, foster innovation and encourage development of new medicines



TRUST

- build public trust and confidence in scientific and decision-making processes

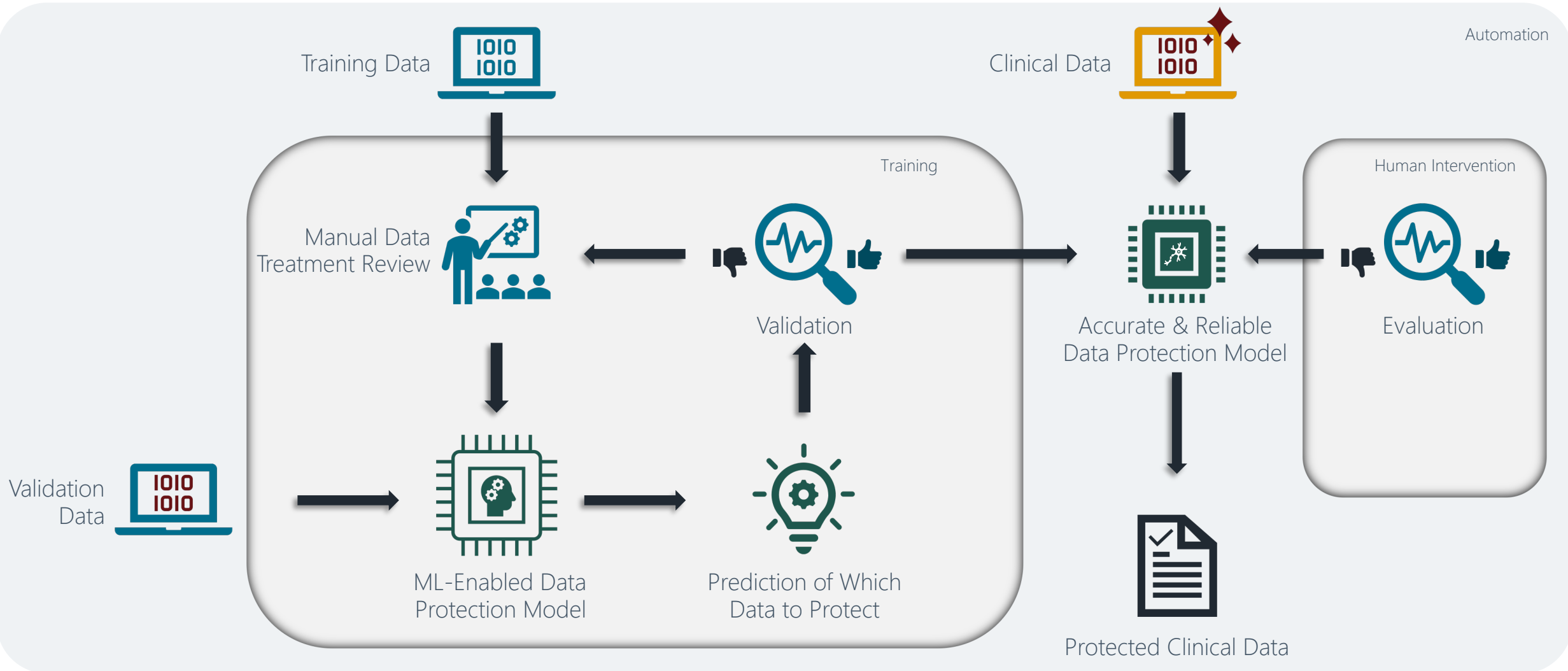


UTILITY

- academics and researchers to re-assess clinical data

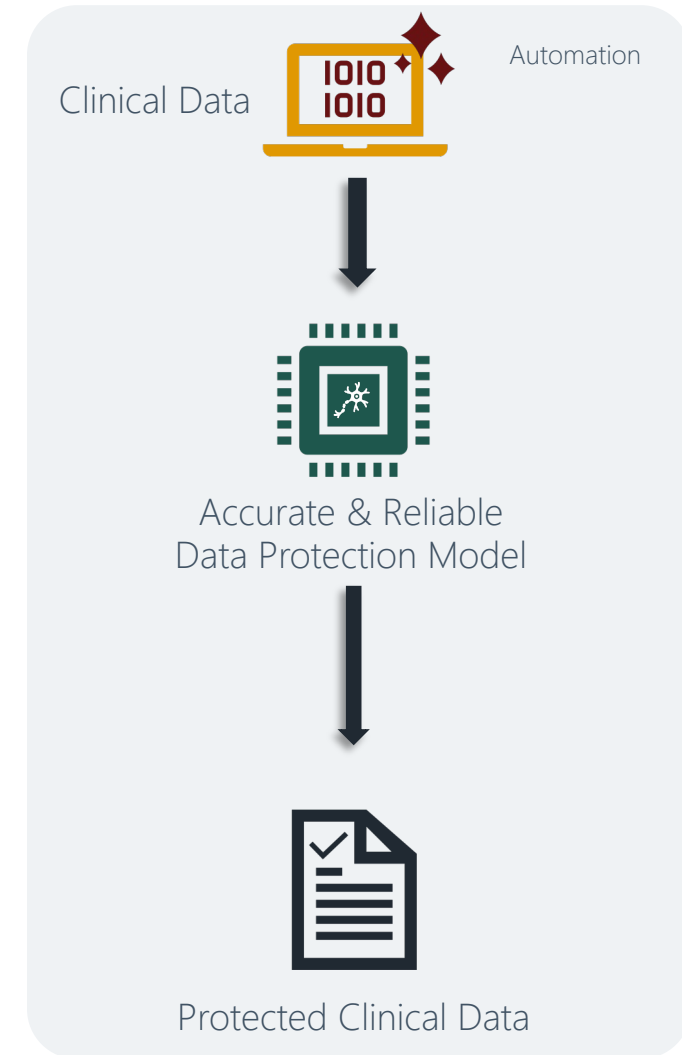
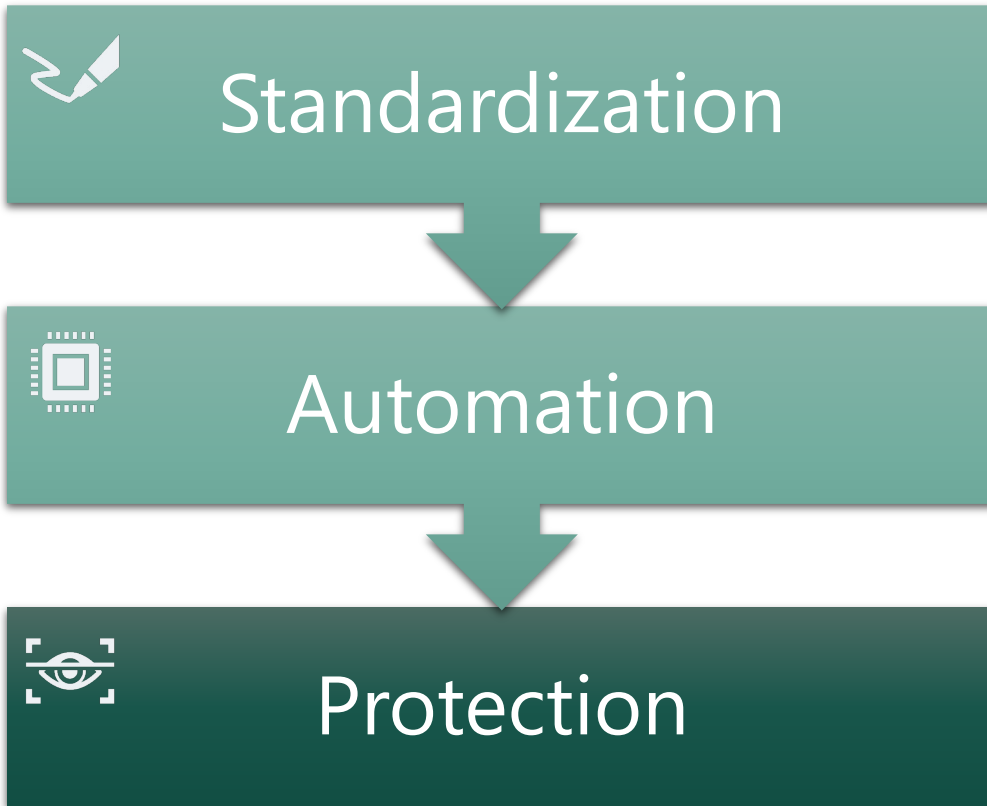
AI Data Protection

ML in the context of Clinical Data Protection



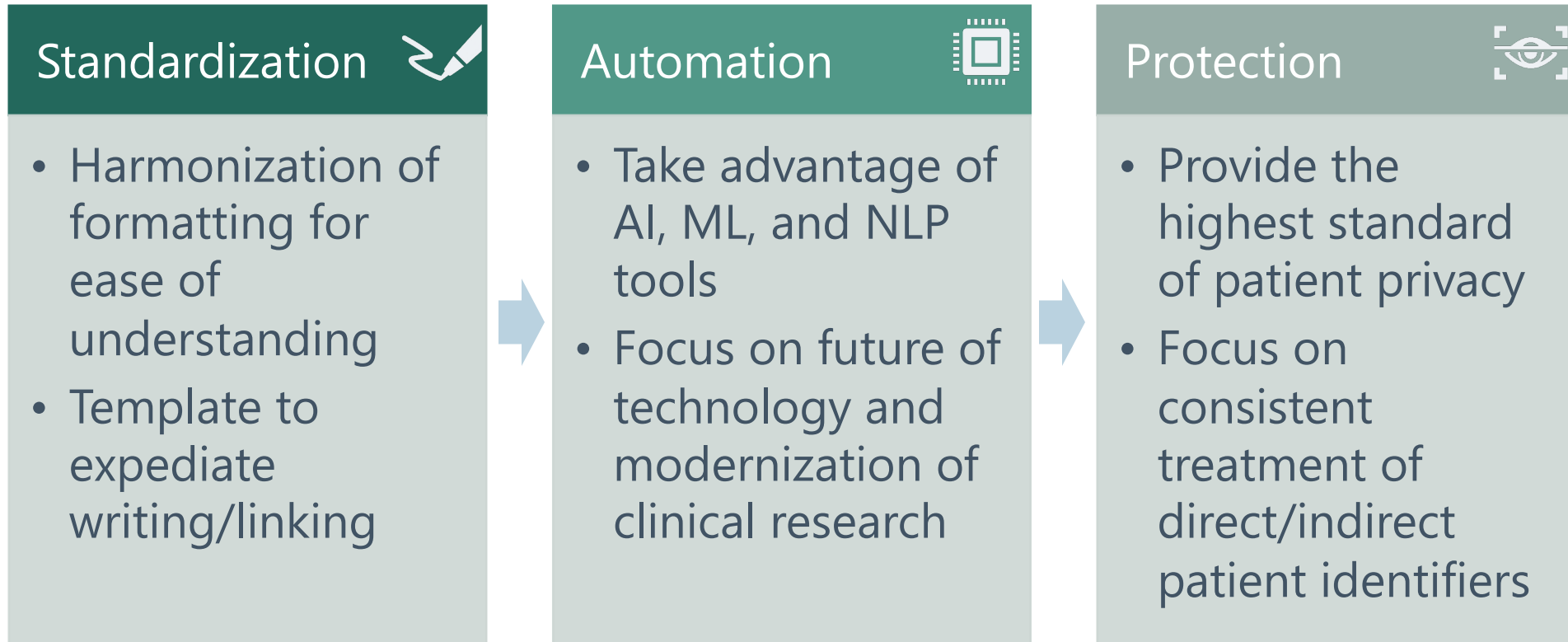
AI Data Protection

Focus on efficient protection of personal & commercial information



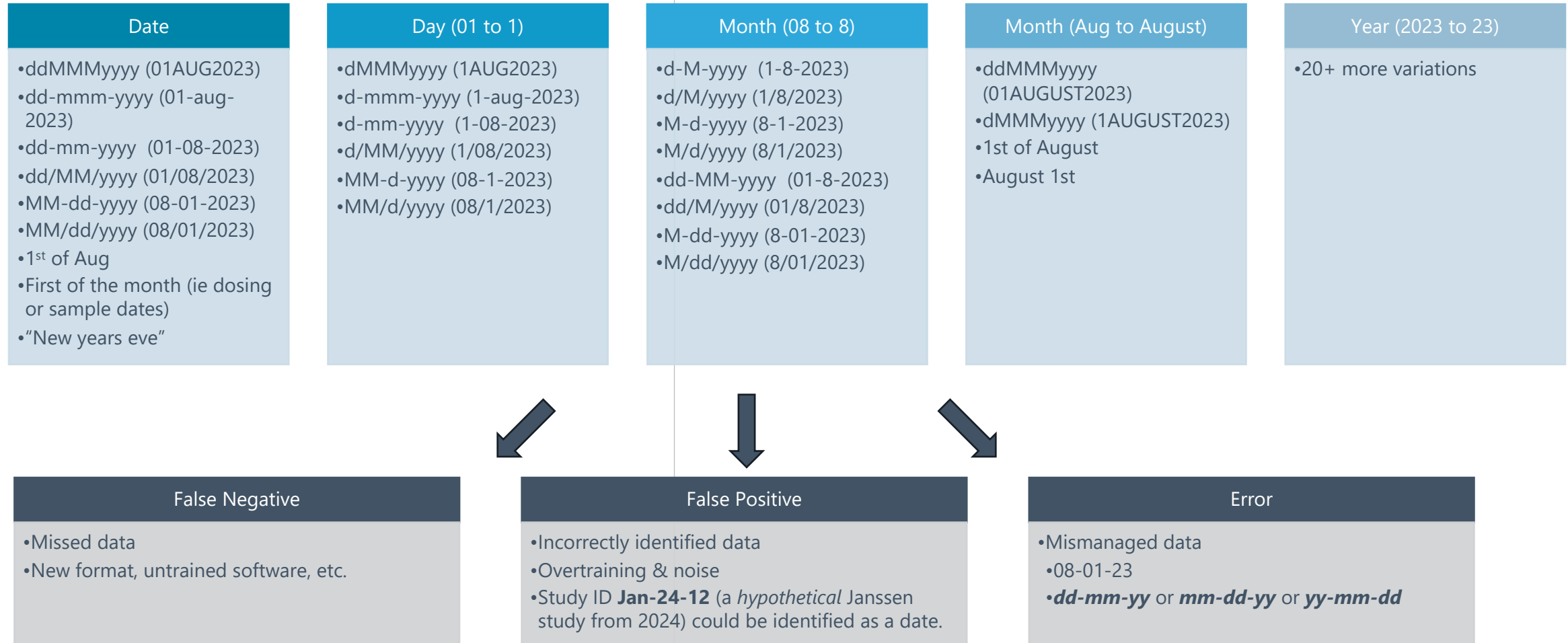
Data Protection

Focus on efficient protection of personal & commercial information



Dates

August 1st, 2023



Dates

August 1st, 2023

Standardization



- Harmonization of formatting to limit variation
- Template to expediate writing/linking

Automation



- AI relies on high quality input
- Focus on future of technology and optimization of current processes

Protection



- Focus on maintaining high standard of patient privacy
- Dates can be knowable

OMIT

unnecessary details

- Do not include times unless necessary
- Move towards using study day

Does not reveal sensitive event dates

Allows for time tracking of study events

Maintains data utility

LIMIT

appearance within the text

- Do not include in sections other than narratives
- Only include where study day cannot be used (birth date etc.)

COMMIT

to harmonization of text

- Use standardized format: **yyyy-mm-dd** (ISO)
- Consistent across all studies & documents

Implementation

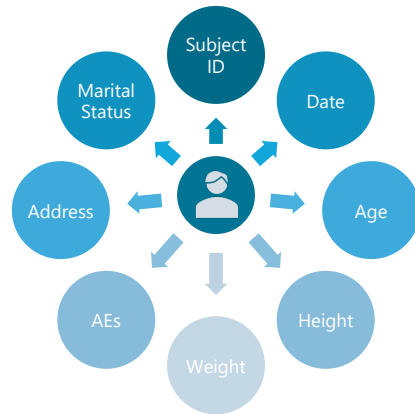
Omit

Current State

Unnecessary amount of information

Model need to deal with noise

More iterations requiring more work and resources

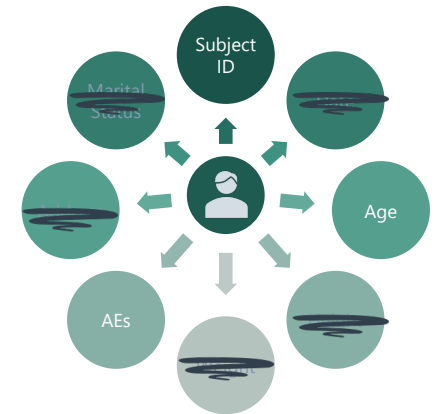


Future State

Standardized information quickly searchable

Models fine-tuned to specific data

Less sensitive data, less work



Implementation

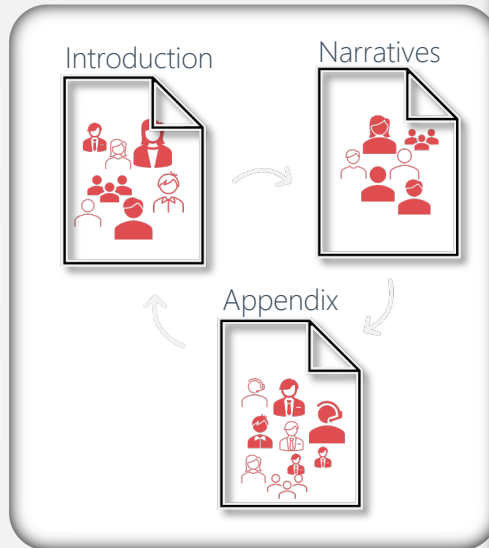
Limit

Current State

Data distributed throughout entire study

Model must be applied to entire study

More review requiring time and resources



Future State

Information centralized to specific location

Model can be targeted to particular sections

Less input data to feed into models



Implementation

Commit

Current State

Excessive variability in data

Model must be highly sensitive

Typically under-redaction with false negatives



Future State

Variations of data simplified

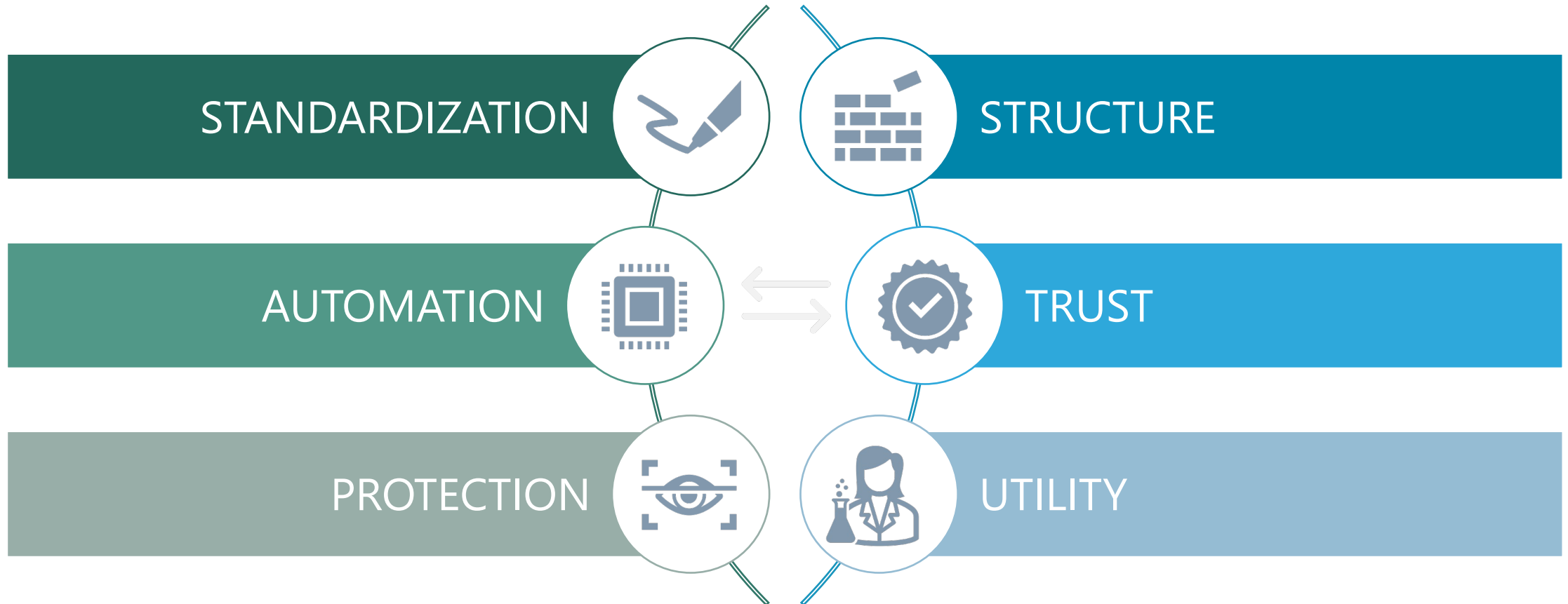
Model can be aimed at specific formatting

Less likelihood of false negatives



Data Protection

Good clinical authoring helps automate and data protection





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Senior Transparency Specialist

THANK YOU

