



**The Role of Artificial Intelligence in Building Responsible
Open Science Infrastructures**

*Research Data Alliance's (RDA) 10th Anniversary Webinar
27 September 2023*

Informed Consent and Open Science in the Age of Artificial Intelligence

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INFORMED CONSENT GUIDANCE

**CHALLENGES OF AI AND DV TO
INFORMED CONSENT**



**RETHINKING THE CONCEPT AND
PRACTICE OF INFORMED CONSENT**

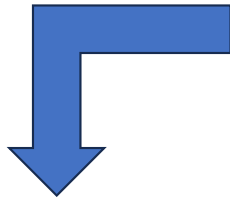


**RECOMMENDATIONS FOR
MAJOR STAKEHOLDERS**

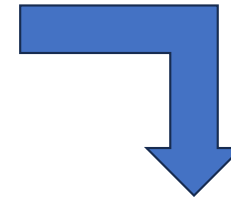
SENSITIVE INFORMATION
PSYCHOGRAPHIC + GENOMIC



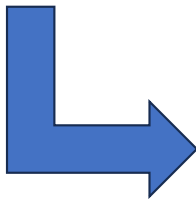
ARTIFICIAL INTELLIGENCE



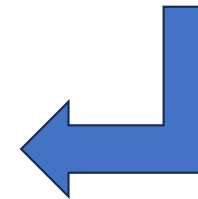
**HEALTHCARE & COMMERCIAL
BENEFITS**



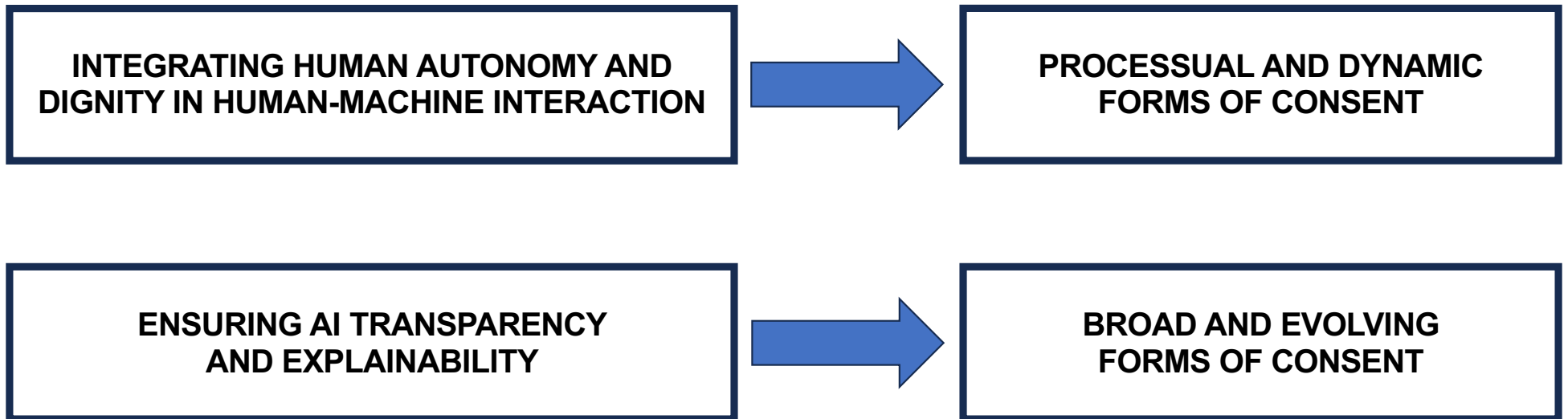
**PROBLEMS OF BIG DATA, BLACK BOX &
BUSINESS MODEL BASED ON
ATTENTION-EXTRACTION**



ERODING HUMAN AUTONOMY



Building a Human-Centered Guidance



Informed Consent, AI and Open Science

RECOMMENDATIONS VERTICAL + HORIZONTAL

FOR OPEN SCIENCE

- (1) WORK IN COLLABORATION WITH AI AND DATA VISITATION (DV) SPECIALISTS IN ORDER TO SUFFICIENTLY AND PROACTIVELY ENSURE THE EXPLAINABILITY OF AI SYSTEMS BEING USED FOR RESEARCH.
- (2) IDENTIFY THE MOST RELEVANT FORM OF INFORMED CONSENT ACCORDING TO THE PURPOSES OF THE RESEARCH OR EXPERIMENT, AND IN CONSIDERATION OF VARYING VULNERABILITIES OF DIFFERENT GROUPS OF PEOPLE.

WAYS FORWARD

- EXAMINE THE IMPLICATIONS BROUGHT ABOUT BY DATA VISITATION IN RELATION TO AI AND INFORMED CONSENT
- CONCRETE RECOMMENDATIONS THAT ARE MORE ACTIONABLE

**For further inquiries about my
team's research email me at
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