
SAGE
Publishing

PRESERVATION OF DIGITAL RESOURCES & TECHNOLOGICAL INNOVATION

PRESERVATION OF DIGITAL RESOURCES

IMPORTANCE

RISK

- Unable to fully capture current events for future generation
- Research data & experiment data not transferred to relevant repository
- Inability to access legal documentation, institutional history etc
- Hardware/software for interpreting data & for presentation of digital information is missing
- Lack of vendor accountability
- Data rendered usable through lack of proactive use, updates & checking

POSSIBLE CONSEQUENCES

- Incomplete historical record. Future research flawed/unreliable/biased
- Loss, gaps in data and scholarly records
- Inability to rely on past evidence to make informed decisions
- Inability to trust in service provided & unable to plan for vendor succession
- Inability to answer crucial research questions, gaps in records, field of research compromised

REASONS TO PRESERVED DIGITAL MATERIALS

Enabling Research

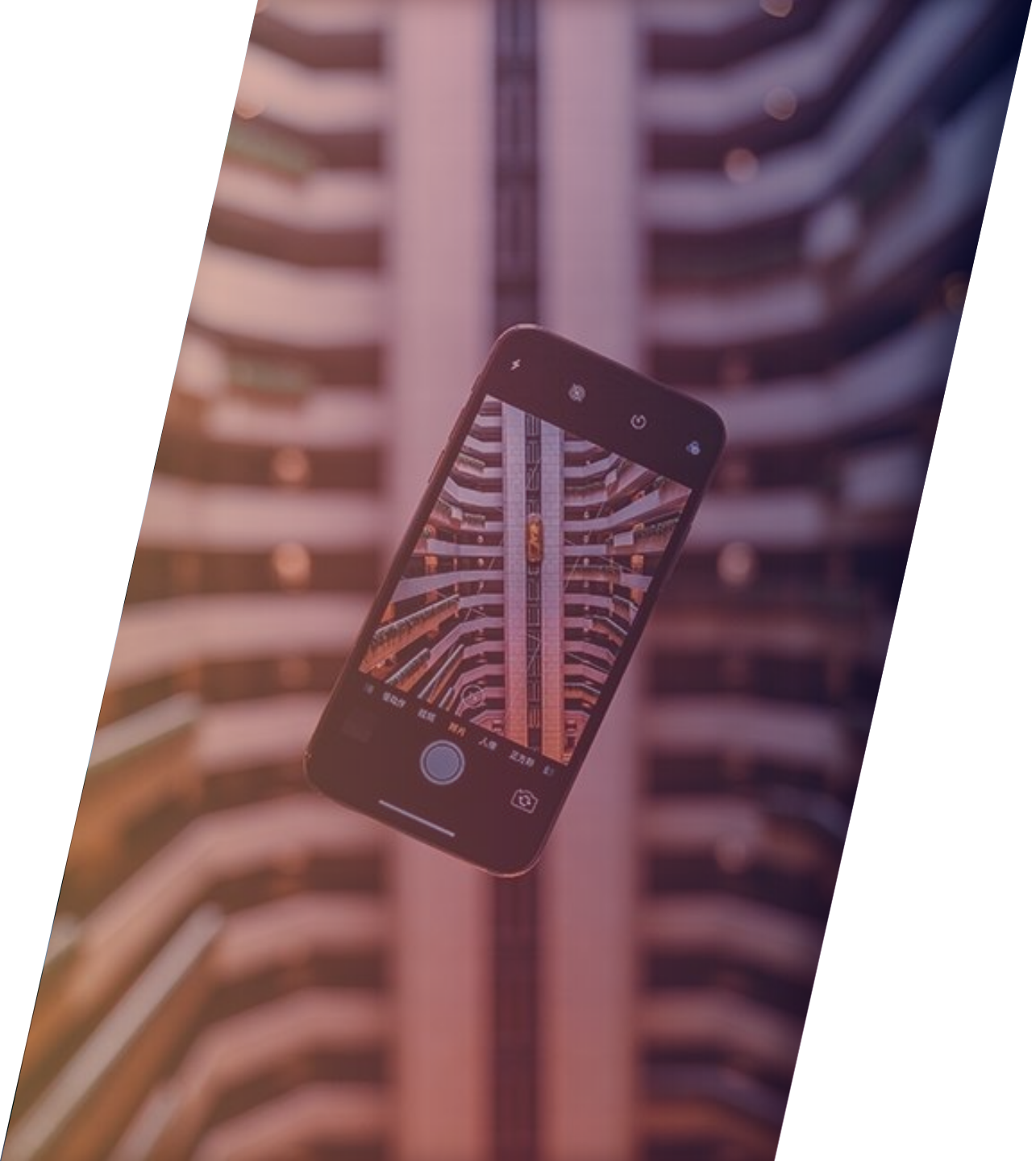
Authenticity

Accountability

Reputation

Business Continuity

Corporate/cultural memory



PUBLISHING TRENDS

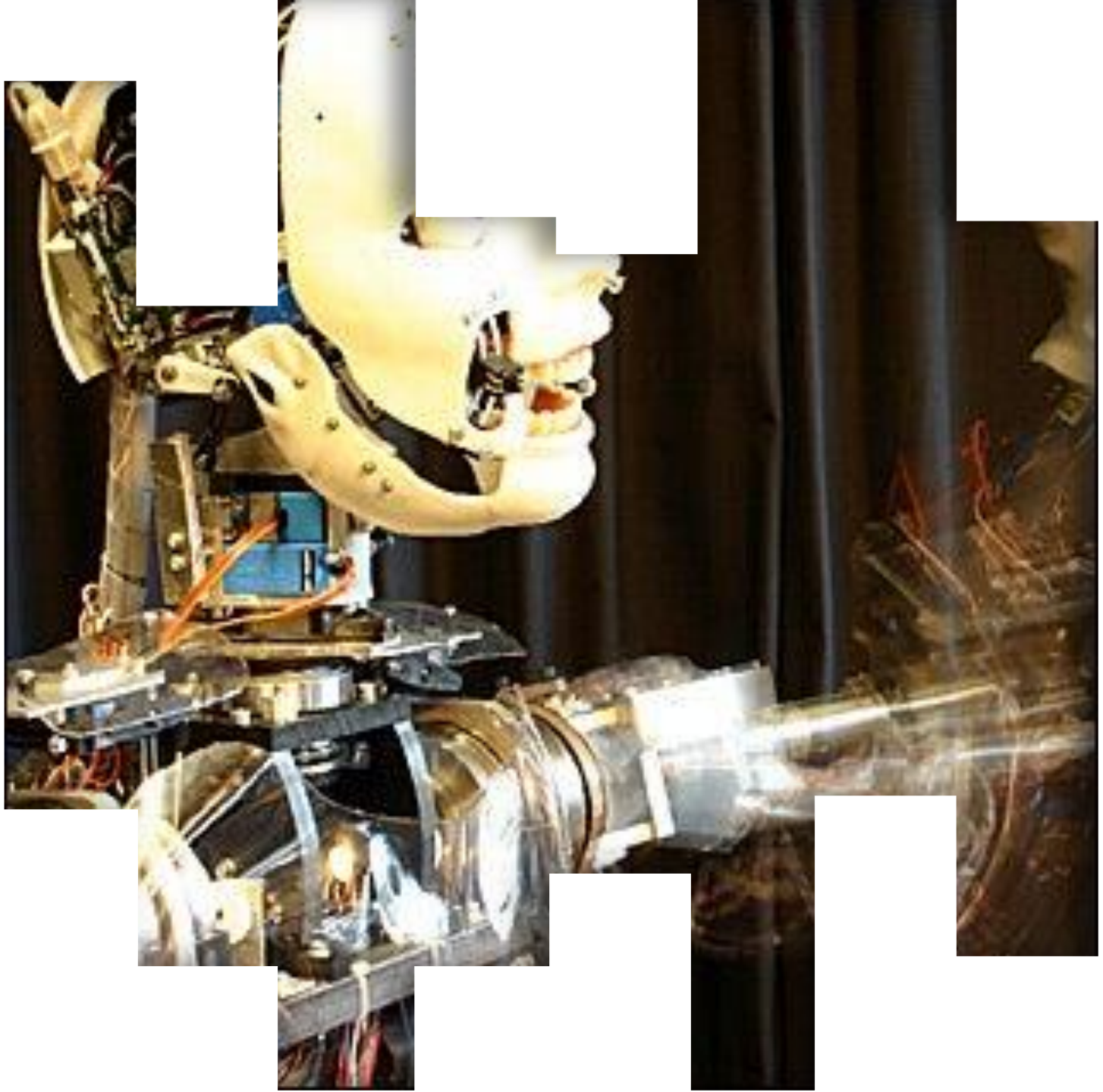
What to watch for

SAGE PUBLISHING

PUBLISHING TRENDS

- Machine Learning & AI
- Interoperable metadata
- New OA publishing models & standards
- Advances in alternative research assessment methods
- Preprints on the rise

TECHNOLOGICAL INNOVATION



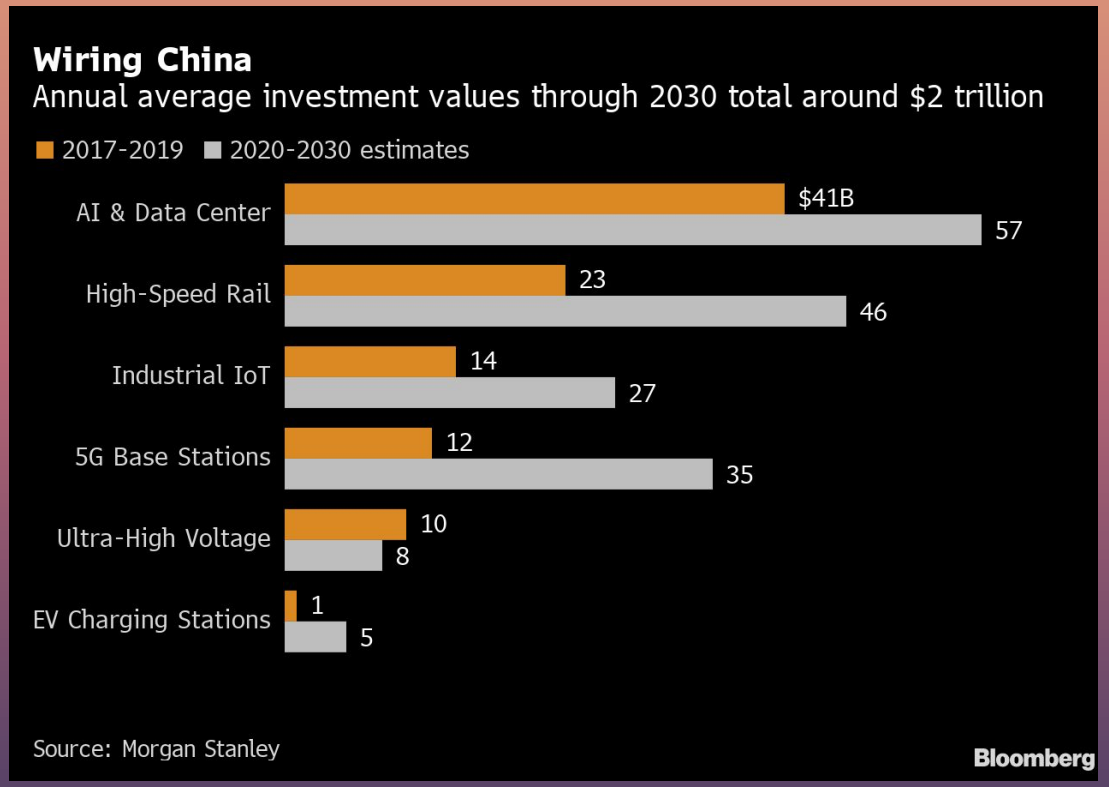
TRANSFORMATION

- AI algorithm to offer personalized, adaptive learning platforms
- AL-enabled smart buildings concept to create smart classrooms for hybrid learning
- Smart Campuses -> bicycle parking spaces, alarms, room usage, temperature, lightning
- Use of IBM Watson @ Deakin University to answer questions & provide 24/7 student advisory service
- Use of blockchains to register & record IP rights => demonstrate & help the true impact that academic research can have

DRIVE TOWARDS AN AI ECONOMY

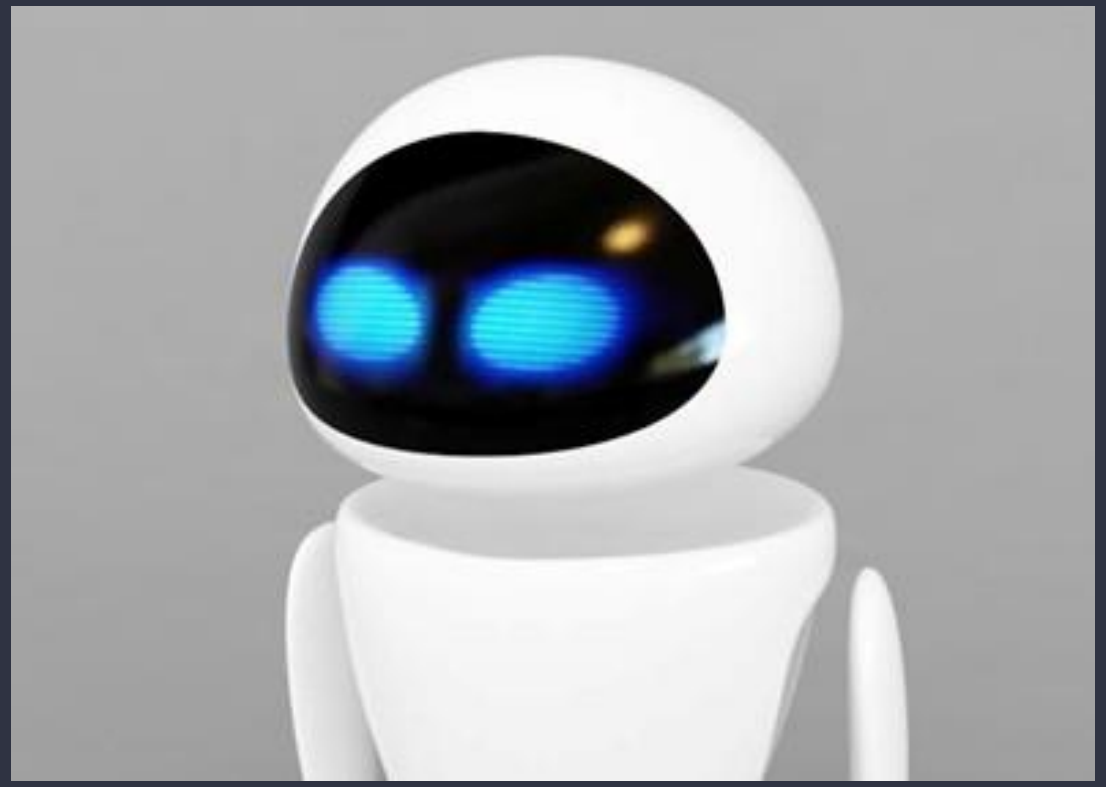
BECOMING THE WORLD'S LEADER BY 2030

CHINA & AI


Wiring China
Annual average investment values through 2030 total around $2 trillion
2017-2019
2020-2030 estimates
AI & Data Center
$41B
57
High-Speed Rail
23
46
Industrial IoT
14
27
5G Base Stations
12
35
Ultra-High Voltage
10
8
EV Charging Stations
1
5
Source: Morgan Stanley
Bloomberg

XIAOTU: ROBOT REFERENCE LIBRARIAN

Tsinghua University



"Hello, my name is Xiao Tu. I'm a robot of the Tsinghua Library. Glad to be here to help you."
Me (the user): "Tell me about Hu Shih and Cornell."
Xiao Tu: "Ambiguous: Ask who, what or where is Hu Shih and Cornell?"
Me: "Hu Shih"
Xiao Tu [switches to Chinese]: "Do you know who I am?"
Me [in Chinese]: "Hu Shih"
Xiao Tu [in Chinese]: "A learned scholar who was neglected."
Me: "Search baike for Hu Shih." (User gives a tip to the robot; Baike is like Google Answers.]
Xiao Tu gives back a four-line Wikipedia entry and provides a link to the source.

ECNU REVIEW OF EDUCATION

Collaboration is Key

- https://journals.sagepub.com/doi/full/10.1177/2096531119878590

- Article : Accelerated Move for AI Education in China published in September 2019

THANK YOU

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