Publication structure 1-Aug-25

Red line sustainability as ecological (- social) (- economic), specify (…) for this paper

1) Sustainability actions: effectiveness of recommended measures, strategies for future

A)
a. Concrete measures towards sustainability-improved computing, Life Cycle
b. Concrete measures towards sustainability-improved software/algorithms
c. Simulations of computing resources & workflows (collaboration issue) and their sustainable usage
d. Theoretical calculations for balances knowledge gain with resources

B) New ideas, sustainable future, perspectives derived from recommended measures, ErUM-Data funding, Prisma Trialog with BMFTR (possibly split into subsections)

2) Ethics: Transformative potential of AI (connectionists methods or ML)

A)
a. Chances and risks for transformative impact on scientists/mankind, high potential for accelerating ErUM sciences, discuss separately categories generative text and physics models
b. Criteria for evaluating which measures improve science/scientists situation and which harm (biases etc.)
c. Transparency and explainabilty of AI measures
d. Attribution of responsibility for AI
e. Ethics in providing and using software

B) Future perspective

3) Assisting awareness: how do we do science sustainably & ethicly

A)
a. Adapting granularity in explaining scientific progress and its relation to sustainabiltiy & ethics
b. Developing and providing paved roads for teaching and outreach (easy to do right thing), building a campaign
c. Analysis of communication threads and helpful measures to counteract
d. Formulating common vision(s) as a positive strong drive towards a resilient better future

B) Future perspectives (concrete actions, separately needed?)

Perspectives next workshop   increasing hand print (definition quantitative)

DIG-UM