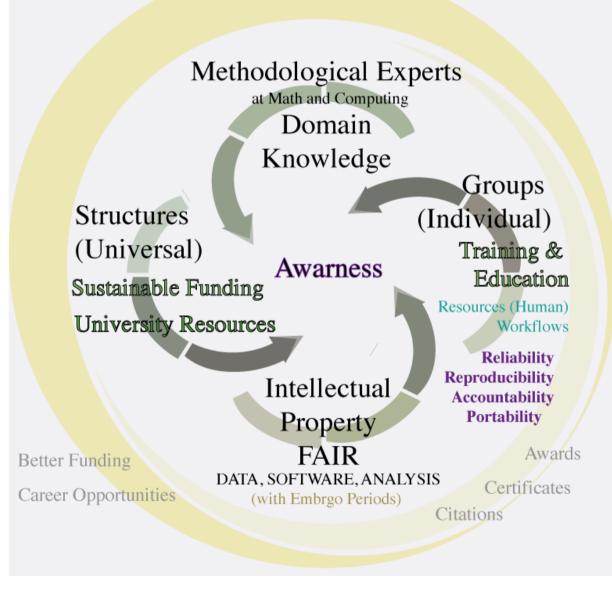# Cultural Change:

- What could a comprehensive educational environment for rethinking the use of computer hardware, data, and etc. looks like?
- How can we change to a culture of data reuse?
- Assessment of ethical implications and risk assessment.

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Initial Take:

Awareness: Information as well as encouragement (i.e. Awards, certificates, citations)

Values / currencies:
Stop thinking about prices/money only, consider the value of exchange by resources

Workflows: workflow management and standardization – for data collection, analysis procedure and analysis software

Key relations:

Sustainability goes hand in hand with Sustainable funding

Reliability is essential for sustainability

Structures and procedures tend to avoid sustainability

Training and education is essential for avoiding and managing risks

Funding:

Limited projects are often not sustainable if no initial perspective is given.
—People leave and knowledge is lost. Things need to be redone.

Sustainability initiatives with no or low funding request: supports creativity but avoids strategic vision/forecast

New carrier paths: new kinds of jobs can help reorganizing the complexity

Not taking into account current vulnerabilities in the financing style/trends leads to loss of data (i.e., universities cannot store data, facilities delete data after some time)
—Change responsibilities and/or the financial situation.

Avoiding Risks: Training and education

Computing often circumvent habitually learning theory:
Knowing more about computing means knowing less about the science domain –it is essential to maintain expertise to validate results

Key points for Training and education:

Rethinking education to maintaining expertise for validating results of computing.
Teach good foundation and practices:
- ✦ Awareness of sustainability in its complexity:
- ✦ Encourage thinking creatively and out of the box
- ✦ Accountability: When aiming at sustainability one might have to sacrifice: know what must be cut to both conserve and push boundaries of knowledge forward

Thank You