



TWAS-ARO Roundtable on Responsible Science

November 28 – 29th 2017

Governance of Responsible Science and Research Innovation


Discussion Group A

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Elements to Implement Responsible Science in a Society





Legislations and Guidelines

Current:

- TRIPS agreement (Trade Related Aspects of Intellectual Property Rights).
 - 1995
 - IPR extension after death
 - By form not necessarily by documentation
 - Fair prices vs Fair use
 - Exclusive rights of use
 - Property rights



**Legislations
and
Guidelines**

What's missing:

- Protection for scientific publishing
- Execution of Judicial Verdicts
- Laws that fits with technical aspects of the academia
- Governance of funds
- Laws related to the use of Human and Animal Subjects in Research

A large orange circle with a slight drop shadow, containing the word "Individuals" in black text.

Individuals

Current:

- Ambition
- High scientific calibers
- Manpower

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Individuals

What's missing:

- Lack of language and computer skills
- Lack of awareness and education
- Lack of vision
- Self-centered
- Lack of morality and integrity
- Ego problem



**Community
&
Gov.**

Current:

- Admission of the problem
- Willingness to solve current issues
- Access to information
- Internationalization.



**Community
&
Gov.**

What's missing:

- Culture of being responsible
- Teamwork
- Integration
- Public awareness
- Utilization of funds
- Updated mindsets
- Innovative ideas and solutions
- Monitorization
- Others



**Suggested
Solutions**



OUTBREAK

Immediate and effective solutions:

- Institutional guidelines matches global standards
- Extensive awareness workshops for scientists and admins.
- Facilitation of funds
- Strict rejection of research misconduct by the scientific community.
- Collaborative work.



**Suggested
Solutions**



OUTBREAK

Medium and Long-term solutions:

- Pre-university education
- More clear and well-established legislations
- Resolving issues related to:
 - Bureaucracy
 - Procurement
 - Stability (Political – Security – etc.)
- Joint conferences integrating scientists, innovators and society.

What's new!

- 91 years and same problems
 - Working in parallel
 - Working in complementation
 - Paradigm change
 - Time to include the three bubbles into a **BIG ONE COMPONENT!!**

“It is not enough to teach a man a specialty. Through it he may become a kind of useful machine, but not a harmoniously developed personality. It is essential that the student acquire an understanding of and a lively feel for values. He must acquire a vivid sense of the beautiful and of the morally good. Otherwise, he, with his specialized knowledge, more closely resembles a trained dog than a harmoniously developed person. He must learn to understand the motives of human beings, their illusions, and their sufferings in order to acquire a proper relationship to individual fellow men and the community.”

Albert Einstein

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