Integrated Pest Management (IPM) - Updated Considerations from the Entomological Practice[1]

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Old realisations

- Pesticide/ antibiotics overuse generates resistance.
- Human population explosion
- Natural resource limitations
- Vector borne diseases kill more humans than wapons in wars.
- *(Past priorities; human holistic entomo-ecological perspective -> SCHOLL 2009)*

New – changing challenges in a changing world, e.g.

- Availability and generation of information is easier than ever before.
- The more one knows about a subject, the easier it is. NOW

Since 2017

- Bed bugs do not transmit diseases – they are a luxury problem.
- Impairment of real estate through arthropods
- holistic concepts (parasitic mites, invasive polygynic ants, pigeon ticks,
- individuals with fear of parasites
- *sustainability of chemicals, pharmaceuticals (honorary)*

2018 November: „Factfulness"

- the human population explosion is cancelled (ROSLING et al. 2018)
- Re-define e.g. „enough", „necessary", …

The old and new question is whose interests are worth it to allow oneself to be exploited.
Responsibility of professional smart alecks is to share their treasures.

Conclusion, Consequences, priorities; human holistic entomo-ecological perspective

- Update knowledge permanently
- Translate science into lay person language and share.
- Merge old intuitive low-tech knowledge into new technology
- Revival of alternatives to chemicals – simplicity (e.g. modification of attitude, behavior, structure; barriers, traps; unity of timing, location and action; self help – potentials and limitations; intuition)
- Stand in for limitation of waste of limited resources, and for smart use.

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