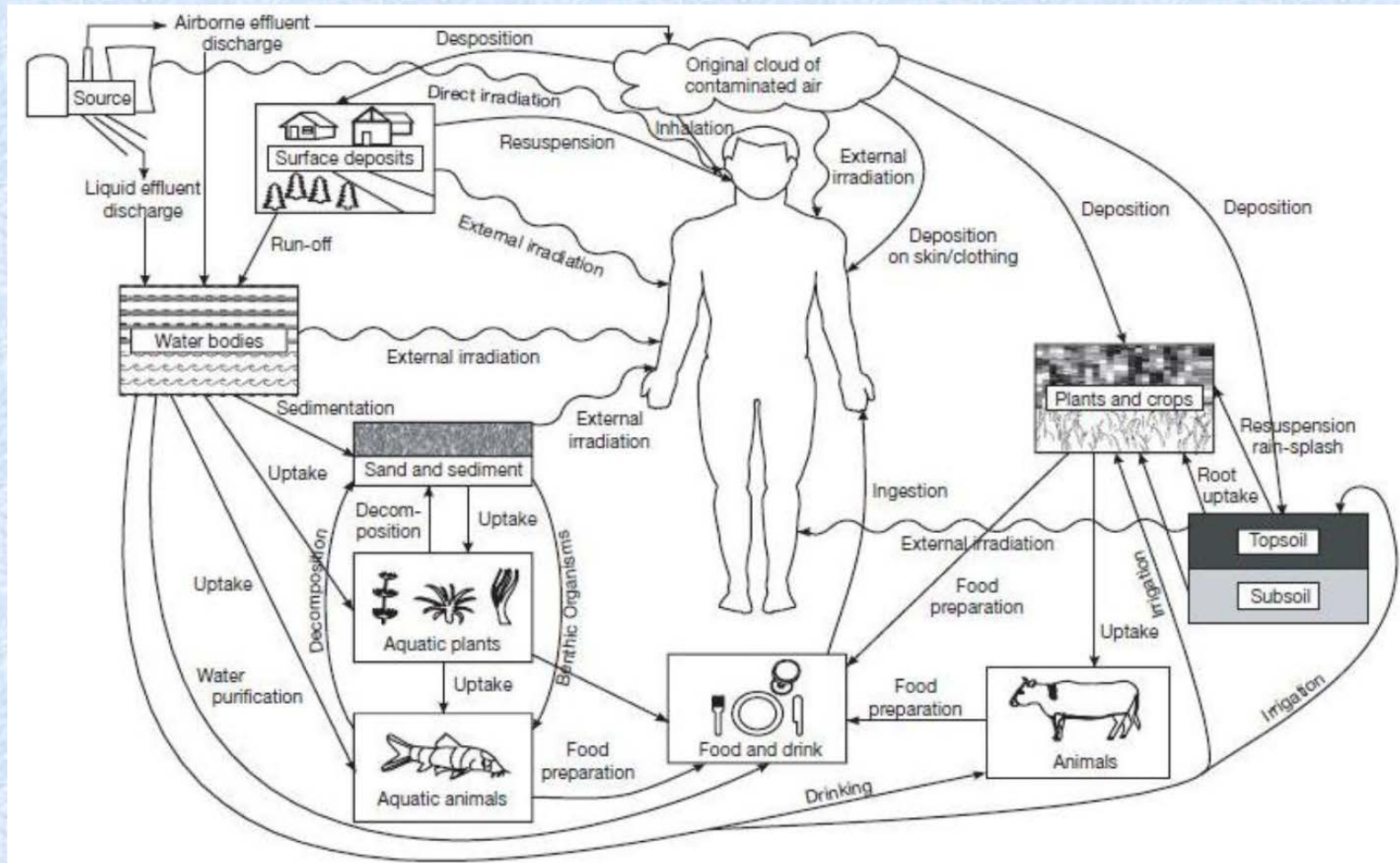


Ensuring safety of occupational workers, public and the environment from harmful effects of ionizing radiation at design, siting, construction, operation and decommissioning stage of Nuclear Fuel Cycle Facilities



To achieve the objective of radiological safety, R&D in following areas and its Application:

- ❑ Shielding and Criticality Safety Evaluation
- ❑ The risk/safety analysis of other industrial facilities of DAE
- ❑ Decommissioning Studies of NPPs
- ❑ Probabilistic Safety Assessment of NPPs
- ❑ Surface water dispersion studies
- ❑ Ground-water modeling studies
- ❑ Development of emission module for long range transport of radioactive aerosols

Radiological impact assessment of nuclear fuel cycle facilities for discharges during normal operation, AOs and potential releases during accidents were carried out to demonstrate compliance with regulatory stipulations and development of comprehensive emergency preparedness and response plan.