References - NAMS Roadmap (2023)

In this guide

In this guide

Attewell, P., 1992. Technology diffusion and organizational learning: The case of business computing. Organization science, 3(1), pp.1-19.

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) Committee on Toxicity | Committee on Toxicity (food.gov.uk)

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) Scoping paper Environmental, health and safety alternative testing strategies: Development of methods for potency estimation TOX/2019/70 Developing methods for potency estimation (food.gov.uk).

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) Minutes December Meeting (2019) COT December 2019 Final Minutes (food.gov.uk).

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) Exploring Dose Response Workshop Report (2020) Exploring Dose Response Workshop Report (food.gov.uk).

Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) PBPK for Regulators Workshop Summary (2020) Blank style sheet for COT Papers 2014 (food.gov.uk).

Cronin, M.T., Madden, J.C., Yang, C. and Worth, A.P., 2019. Unlocking the potential of in silico chemical safety assessment–A report on a cross-sector symposium on current opportunities and future challenges. Computational Toxicology, 10, pp.38-43

Department for Environment, Food & Rural Affairs and Government Office for Science research programme launched to inform Defra policy making (2019) Science research programme launched to inform Defra policy making - GOV.UK (www.gov.uk).

Department Health Social Care- Better, broader, safer: using health data for research and analysis Independent Report Better, broader, safer: using health data for research and analysis - GOV.UK (www.gov.uk).

Department for Business, Energy and Industrial Strategy (BEIS) white paper on Regulation for the Fourth Industrial Revolution (2019) Regulation for the Fourth Industrial Revolution: White Paper (publishing.service.gov.uk).

Department for Business, Energy and Industrial Strategy (BEIS) Report-The use of emerging technologies for regulation (2020) The Use of Emerging Technologies for Regulation (publishing.service.gov.uk).

Environment Protecting Agency-Accelerating the Pace of Chemical Risk Assessment (APCRA) Accelerating the Pace of Chemical Risk Assessment (APCRA) | US EPA

European Food Safety Authority Open Food Tox. Chemical Hazards Database (OpenFoodTox) | EFSA (europa.eu).

Díaz, S., Demissew, S., Carabias, J., Joly, C., Lonsdale, M., Ash, N., Larigauderie, A., Adhikari, J.R., Arico, S., Báldi, A. and Bartuska, A., 2015. The IPBES Conceptual Framework—connecting nature and people. Current opinion in environmental sustainability, 14, pp.1-16.

EU FOOD 2030 Pathways for Action, Food Systems and Data (2018) Language selection | European Commission (europa.eu).

Food Standards Agency (FSA). Homepage | Food Standards Agency

Food Standards Agency Incidents Food incidents, product withdrawals and recalls | Food Standards Agency.

Food Standards Agency Chief Scientist Data Science Report (2017) Chief Scientific Adviser's Science Report (food.gov.uk).

Food Standards Strategy Our strategy | Food Standards Agency.

Geels, F.W., 2002. Technological transitions as evolutionary reconfiguration processes: a multi-level perspective and a case-study. Research policy, 31(8-9), pp.1257-1274.

Global Summit on Regulatory Science (GSRS17) was Emerging Technologies for Food and Drug Safety Report (2017). 2022-12-16 08:12 | Archive of FDA (pagefreezer.com).

Goel, V. and Pirolli, P., 1992. The structure of design problem spaces. Cognitive science, 16(3), pp.395-429.

Goel, V. and Pirolli, P., 1989. Motivating the notion of generic design within information-processing theory: The design problem space. AI magazine, 10(1), pp.19-19.

Government Food Strategy Government food strategy - GOV.UK (www.gov.uk).

Government -The Green Book: appraisal and evaluation in central government The Green Book: appraisal and evaluation in central government - GOV.UK (www.gov.uk).

Government for Science Rebuilding a resilient Britain Rebuilding a resilient Britain - GOV.UK (www.gov.uk).

Government for Science Rebuilding a Resilient Britain: Data and Evaluation Areas of Research Interest across Government Data_and_Evaluation_ARI_summary_paper.pdf (publishing.service.gov.uk).

Hartung, T., 2010. Lessons learned from alternative methods and their validation for a new toxicology in the 21st century. Journal of Toxicology and Environmental Health, Part B, 13(2-4), pp.277-290.

Judson, R., Richard, A., Dix, D.J., Houck, K., Martin, M., Kavlock, R., Dellarco, V., Henry, T., Holderman, T., Sayre, P. and Tan, S., 2009. The toxicity data landscape for environmental chemicals. Environmental health perspectives, 117(5), pp.685-695.

Kavlock, R., Chandler, K., Houck, K., Hunter, S., Judson, R., Kleinstreuer, N., Knudsen, T., Martin, M., Padilla, S., Reif, D. and Richard, A., 2012. Update on EPA's ToxCast program: providing high throughput decision support tools for chemical risk management. Chemical research in toxicology, 25(7), pp.1287-1302.

Lie, M. and Sørensen, K.H. eds., 1996. Making technology our own?: domesticating technology into everyday life. Scandinavian University Press.

Malloy, T., Zaunbrecher, V., Beryt, E., Judson, R., Tice, R., Allard, P., Blake, A., Cote, I., Godwin, H., Heine, L. and Kerzic, P., 2017. Advancing alternatives analysis: the role of predictive toxicology in selecting safer chemical products and processes. Integrated environmental assessment and management, 13(5), pp.915-925.

National Centre for the Replacement, Refinement and Reduction (NC3Rs). The 3Rs | NC3Rs.

Newell, A., Yost, G.R., Laird, J.E., Rosenbloom, P.S. and Altmann, E., 1993. Formulating the problem space computational model. In The Soar papers (vol. II) research on integrated intelligence (pp. 1321-1359).

Pain, G., Hickey, G., Mondou, M., Crump, D., Hecker, M., Basu, N. and Maguire, S., 2020. Drivers of and Obstacles to the Adoption of Toxicogenomics for Chemical Risk Assessment: Insights from Social Science Perspectives. Environmental health perspectives, 128(10), p.105002.

Rogers, E.M. (2003). Diffusion of innovations, 5th Ed. New York, NY.

Royal Society of Chemistry Drivers and scope for a UK chemicals framework (2021) rsc-uk-chemical-framework-drivers-scope-2020.pdf.

Russell, W.M.S. and Burch, R.L., 1959. The principles of humane experimental technique. Methuen.

Simon, H.A., 2019. The sciences of the artificial. MIT press. Science Council Science Council | Science Council (food.gov.uk).

Science Council Working Group on Data Usage and Digital Technology Report (2020) Final Report from the Science Council Working Group on Data Usage and Digital Technology (food.gov.uk).

Slikker Jr, W., de Souza Lima, T.A., Archella, D., de Silva Junior, J.B., Barton-Maclaren, T., Bo, L., Buvinich, D., Chaudhry, Q., Chuan, P., Deluyker, H. and

Domselaar, G., 2018. Emerging technologies for food and drug safety. Regulatory Toxicology and Pharmacology, 98, pp.115-128.

Solomon, K.R., Wilks, M.F., Bachman, A., Boobis, A., Moretto, A., Pastoor, T.P., Phillips, R. and Embry, M.R., 2016. Problem formulation for risk assessment of combined exposures to chemicals and other stressors in humans. Critical Reviews in Toxicology, 46(10), pp.835-844.

Sturla, S.J., Boobis, A.R., FitzGerald, R.E., Hoeng, J., Kavlock, R.J., Schirmer, K., Whelan, M., Wilks, M.F. and Peitsch, M.C., 2014. Systems toxicology: from basic research to risk assessment. Chemical research in toxicology, 27(3), pp.314-329.

Synthesis and Integration of Epidemiological and Toxicological Evidence Subgroup (SETE) -Draft report on the synthesis and integration of epidemiological and toxicological evidence in risk assessments (2021).

TOX-2021-37 Draft Report of the SETE subgroup of the COT and COC

UK GOV Policy Paper- Genome UK: the future of healthcare (2020). Genome UK: the future of healthcare - GOV.UK (www.gov.uk).

UK GOV Global Britain in a competitive age The Integrated Review of Security, Defence, Development and Foreign Policy Global Britain in a Competitive Age the Integrated Review of Security Defence Development and Foreign Policy.pdf.

UK GOV UK Research and Development Roadmap UK Research and Development Roadmap (publishing.service.gov.uk).

UKRI Non-animal technologies in the UK: a roadmap, strategy and vision Non-animal technologies in the UK: a roadmap, strategy and vision – UKRI.

UKRI Strategy 2022-2027 Our strategy 2022 to 2027 – UKRI.

Unwin, A., Hawkins, G., Hofmann, H. and Siegl, B., 1996. Interactive graphics for data sets with missing values—MANET. Journal of Computational and Graphical Statistics, 5(2), pp.113-122.

Wang, Z., Walker, G.W., Muir, D.C. and Nagatani-Yoshida, K., 2020. Toward a global understanding of chemical pollution: a first comprehensive analysis of national and regional chemical inventories. Environmental science & technology, 54(5), pp.2575-2584.

Worth, A.P., 2019. The future of in silico chemical safety… and beyond. Computational Toxicology, (10) pp 60-62.