Big Data for Sustainable Foods, Nutrition, and Health

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Abstract

The development of sustainable dietary guidelines requires input from multiple sectors as well as some complex modeling. The four domains of food sustainability can be broadly defined in terms of nutrition and health, economics, culture and society, and the environment. Their dynamic interactions at the regional and global scale can be complicated by the nutrition transition, agro-industrial practices, and by climate change. On one hand, existing diets are said to drive climate change; on the other, global warming can shape what our diets will be in year 2050. Big data inputs for analytics need to be context specific: the future of public health lies in precise geo-localization of dietary and health data at fine resolution. Among methods, metrics and models to be discussed will be recent advances in nutrient profiling of foods, affordability indices and geographic distributions of diets and obesity rates in the US and elsewhere. Big data analytics are needed to identify foods and cultural food patterns that nutrient rich, affordable, culturally acceptable and with low impact on the environment.

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The **BRIDGE** webinar series is designed to prepare for the next generation of big data analytics, woven into transdisciplinary and intersectoral sciences, policy and innovation, and serving as catalyst for solutions at scale to better address the seemingly intractable problems that lie at the nexus of health and wealth production, distribution and consumption. A key to accelerate change lies in establishing bridges between sectoral big data, and between data and content. To foster real time learning, the **BRIDGE** webinar series brings together a new solution-oriented transdisciplinary translational paradigm for the four *M*s of big data sciences used on both sides of the health and economic divide (*M*achines, *M*ethods, *M*odels and *M*atter).

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