**CLIMATE CHANGE: FOOD SAFETY, HEALTH & SUSTAINABILTY**

**İKLİM DEĞİŞİKLİĞİ: GIDA GÜVENLİĞİ, SAĞLIK & SÜRDÜRÜLEBİLİRLİK**

**Dr.Begüm Önal\***

**Food Safety & Operations Manager, Gourmet International Ltd.**

**RIS Policy Council Member, EIT FOOD**

Global, regional and national food security and the provision and sustainability of food security, which is a measure of people's ability or capacity and well-being to access food, is now more important than ever. Climate changes and variability, for example, unpredictable weather patterns, extreme climate events and seasonal shifts may have an impact on rapid biodiversity loss, occurance of food safety problems within all food value chain, rasing food insecurity, increasing public health risks, unsustaianable production and consumption, as well. Climate change may affect its environmental aspect of food system as well as its social and economic dimension such as agriculture, local farmers & local economy, animal production, global trade, retail sector, consumer behaviour & perception and food supply management, therefore all inluence food safety, security and nutrition.

Consumers have high expactations for transparency & traceability for food value chain, food safety & security, sustainability produced food, high quality-nutritious food, as well. In addition to this, agri-food industries fulfilling these demands targer a consumer' perception with high awareness of three aspects of sustainability such as i )environmental ii) tehnical-economical iii) social) for sustainable production and consumption is more crucial for Sustainable Food Supply Chain Management (FSCM).

Preaparation of road-map for agri-food sector is key tool to manage its ‘Food Supply Chain Management’: i)The potential impacts of predicted changes in climate on sustainable food production (i.e. food safety, high quality and nutritious foods, food contamination etc.) at various stages of the food value chain ii) implementation adaptation strategies are needed to address global food safety applications of climate change.

Multidisciplier & intersectoral cooperation (i.e. agri-food sector experts, academia, government, policy makers etc.) is needed to develop the necessary tools to mitigate the impacts of climate on food system. These sustainable perspectives & strategies may include for agri-food industry to improve their food value chain: i) increase sustainable & regenerative agriculture ii) circular economy concept iii) reduce loos of natural landscape & increase biodiversity iv) food waste management strategies v) support local farmers & local food production vı)sustainable diet & foos vıı)sustainable food packaging solutions.

 **Key Words:** Climate Change, Food Safety, Sustainable Food Systems