



Extract of The Club of Rome EU CHAPTER

<http://clubofrome.eu/events/article/food-scarcity-unavoidable-by-2100-impact-of-demography-climate-change-156>

# FOOD SCARCITY UNAVOIDABLE BY 2100 Impact of Demography & Climate Change



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## Description:

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Under the



INVITATION Thursday 26 January 2017 at 18:00 sharp

## **The Aurelio Peccei Lectures & Dialogues-**

Enquiries on the Challenges of the 21st Century

97th LECTURE

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# FOOD SCARCITY UNAVOIDABLE BY 2100

## Impact of Demography & Climate Change

Prof. em. Dr. ir. Raoul A. Weiler

Dr. Kris Demuyne

Food for everyone is a humanistic objective, however by far not reached yet. The balance projected to the end of the 21st century is not quite optimistic. One of the major reasons lies in the planetary demographic expansion of some three additional billion individuals, plus the still undernourished of about one billion people. Global warming and extreme weather conditions, enhance the need for an overarching governance approach or institution.

The research project makes use of the **Climate Classification System** from Wladimir Köppen and Rudolf Geiger. It addresses climate phenomena independently from legal borders; about 25 terrestrial Climate Zones are used.

The demographic increase requires to look in a different way to the significance for the survival of the human species. The data are taken from UN ECOSOC Population Division and cover the period 1950-2300 for the continents.

The New Sciences of Networks emerged some decades ago and have not used for analyzing the food 'problématique'. The 'open source' software Gephi (The Open Graph Viz Platform) and the programme language, R, for statistical analyses are applied. The diagrams: adjacency matrix, dendrograms, decision trees and the Kamada Kawei algorithm describe the correlations among Climate Zones and the agricultural parameters: crops, meat, arable land and fresh water.

## **Optimism is not enough!**

### **Electronic registration with appropriate form is compulsory.**

Event contribution: 12 Euros for the CoR-EU members and students; 20 Euros for non-members.

#### **Venue :**

**Royal Academy of Belgium, Hertogstraat 1 rue Ducale  
B-1000 Brussels. Entrance D.**

The lectures are delivered by distinguished expert speakers with various backgrounds. They are followed by a dialogue with the audience. Drinks and informal get together afterwards allow for networking and exchanges of views. The cycle of lectures is named after Aurelio Peccei (1908-1984), co-founder of The Club of Rome in 1968.