

# Transition waves in a farmers and hunter-gatherers model of the neolithic revolution in Europe

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The Neolithic transition is one of the most significant single developments in human history, which consists of a demographic shift from hunter-gatherers to farmers. Around 10000 years ago, the Neolithic transition started to spread of early farming in Europe. The radiocarbon dating performed by archeologists shows that the transition began from the site of the east part of Europe, which is nearby Turkey and named as Jericho, and then it spread to the rest part of Europe through a mutual interaction between farmers and hunter-gatherers. Archeological records reveal that the farmers expanded almost constantly into the region of hunter-gatherers. In this talk, I would like to propose a reaction-diffusion model to discuss transition wave of farmers from the focus on traveling waves in the model.