

AGRICOORD

PAVING THE WAY FOR GLOBAL COORDINATION AGAINST HUNGER

Current problem

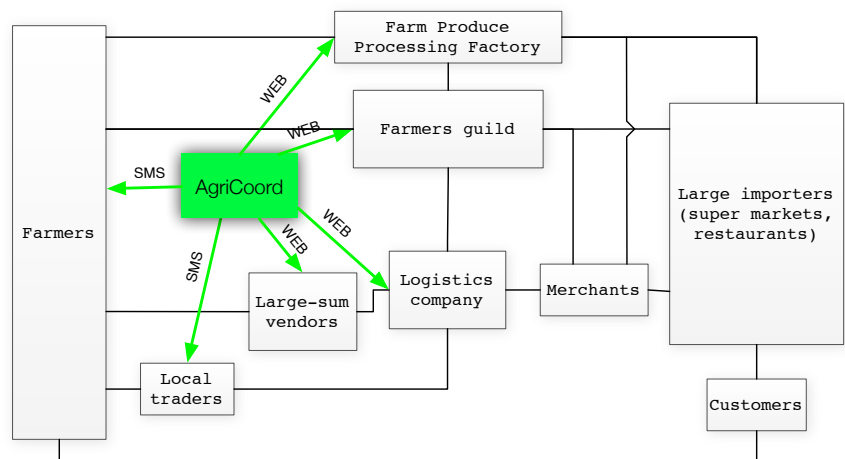
Both the problem and the solution for this comes from a Chinese news article where an agricultural problem was reported: Major food spoilage happening because a lot of farmers were overproducing a single crop. The essence of the problem is that in many developing areas the farmers are not well connected and so do not know what the market prices will be, or what the other farmers in the same area are going to plant. Also, the lack of cold storage increases the sensitivity to market fluctuations.

Solution

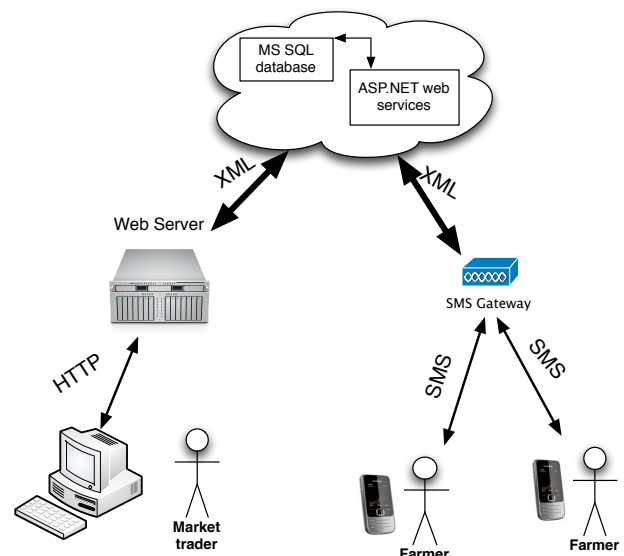
Our solution is simulating and evaluating the market requirements and all the farming plans simultaneously in a single economic area in a networked system. Every farmer is able to submit his farming plan to the service. In order to prevent plant oversupply, the system will evaluate these plans based on the market forecast, and inform the farmers. And if a surplus case is predicted despite the assisted planning, the system will warn farmers before planting and suggest a better alternative crop if possible.

AgriCoord Program

The way how we will implement our solution is to design a software system that provides centralized service of farming planning to an economic area. It helps to connect both the farmers to each other and to larger market traders. It provides planning services to the farmers so that they can switch from over-farmed crops before the actual planting happens. Market administrators can maintain and set up the system for the farmers, and regular traders can plan their product chain in advance to avoid spoiled goods. The system has been designed to work so that it will not only record farming plans, but it will also attempt to make predictions and graphs based on those, so the users can see what crop prices will be at the end of the season and prepare to the situation.



AgriCoord integrated into the economy



AgriCoord system structure

