The world and Sweden gets warmer. That justifies immediate actions in production and use of genetic materials. Seed orchards supply a robust, predictable, reliable and controllable seed source. Modifications for climate prognosis immediate before seed harvest are possible by rouging, selective harvest, supplementary pollination, flower stimulation and artificial crosses. Natural regeneration or local seeds cannot be regarded as well-adapted alternatives any more. The addition to forest production means a better utilization of the forest resource and a sustainable world supported by renewable resources.

The recruitment population is drawn from and tested over a range of environments. This means that seed orchard clones are plastic and adapted over a range of environments, and thus a safer material for unpredictable future conditions.

The Temperature rise in Sweden relevant to seed sources can be set to one degree 1991-2040 starting 1990. Other factors are also likely to change (maritime, precipitation, pests and pathogens), but quantitative predictions are too uncertain for recommendation of seed source within species. It is recommended that seed sources are deployed at a higher elevation rather than transferred north, to avoid affecting light climate. Establishing new seed orchards our forecast is a one degree warmer climate.