## Technological Task #34

1	Task Name	Treatment of Defective Earthworks
2	<b>Problem Statement</b>	It is necessary to develop a technology that increases the
		intervals between repairs on these sections, with the goal of
		maintaining the track geometry for an extended period and
		enabling higher train speeds.
3	Problem Scale	Currently, there is an urgent need for regular summer track
		work on 84 sections with defective earthworks and 145
		sections with track settlement issues that have speed
		restrictions and require the use of ballast cleaning machines
		(RM). These works result in significant expenses due to the
		high cost of ballast and the long transport distances.
		Additionally, due to the complex geological conditions of
		the repaired sections, the track geometry deteriorates
		rapidly again. Specifically, the ballast becomes
		contaminated due to the mixing of crushed stone particles
		with the underlying soil, leading to the expulsion of the
		ballast from under the rail and sleeper grid and a high rate
		of wear on the railway ballast under the loads of passing
		trains. This results in frequent repairs of the same sections
		of the track, leading to inefficient use of resources.
4	<b>Current Solutions</b>	-
5	<b>Expected Outcomes</b>	Application of new technologies to solve these problems.
6	Necessary Research	-
	and Work for Problem	
	Solving	
7	Required Technological	-
	Parameters	
8	<b>Initial Data for Finding</b>	-
	Solutions	
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10	<b>Expert Notes</b>	