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Short Communication

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In the News of Euronews and Other Media Regularly Show Terrible Pictures of Floods of Various Rivers with Destruction and Victims

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The latest are in South Korea, Spain - Valencia, in America - the states of Texas and New Mexico, Nigeria, South Africa, Saudi Arabia, China, Kazakhstan, St. Petersburg.

The main cause of floods is called heavy rains, destruction of dams. However, the state of the river bottom profile is not taken into account. Rivers have the property of continuously and inevitably changing their channel, decreasing depth. Every minute, day after day, year after year, particles of soil are torn off from the banks and accumulate on the bottom of the river. The life of the population of coastal settlements has brought even more sediment. Remains of building materials, erosion of soil by rainwater, garbage, various waste - all this is dumped and flows into the rivers and raises the bottom. There are no natural mechanisms for maintaining the depth of rivers. In addition to destroying roads and buildings, flood waters flood vast territories and create artificial evaporation, which changes sedimentation, which in turn affects the climate of the entire planet. (to-preserve-climate-humanity-must-change-their-attitude-to-water-and-rivers.pdf). The main user of rivers is humanity. And it must reconsider its attitude to rivers. This relationship is known for its absolute indifference, except for extracting electricity from the waters of blocked channels to rotate the turbines of electric generators.

The depth of rivers is constantly decreasing. In order to eliminate floods, it is necessary to maintain the profile, and more specifically the depth of the river along its entire length, so that all the waters in the spring and after heavy rains cannot overflow the banks. To do this, it is necessary to regularly clean or prevent sediment. Modern serial dredgers can deepen the bottom of rivers, but they require significant effort. To prevent floods, it is necessary to reconsider your attitude to rivers. It is necessary to prevent the decrease in the depth of rivers not only during floods, but constantly and continuously. Many enterprises buy or rent dredging equipment and deepen the bottom by several meters. This allows to reduce the destructiveness of floods a little. But not for long, until the next overflow. To do this, they deepen the bottom by several meters and pollute the coastal areas. In this case, considerable volumes of fuel are consumed.

continuous monitoring and management of all processes is necessary. And the dug ditches and pits very quickly become silted up and the rise in the river bottom continues along the entire length of the river. Floods continue during subsequent high waters. Such technology requires a floating craft, considerable
displacement, capable of carrying such actuators as propellers, anchor devices, bottom sediment activators, pumps, pipelines. And all these units and mechanisms must be provided with electric (hydraulic) drives with powerful energy. This requires a corresponding powerful power plant and continuous control. Power plants of serial dredgers, now in the range from 100 to 1000 kW, require a lot of fuel, lubricants, time, and continuous control and maintenance. The cost of such equipment is hundreds and thousands of dollars.
It is necessary to simply prevent the shallowing of rivers. Remove what settles continuously along the entire length of the river. In essence, deepening should not become a one-time need, but a constant and regular maintenance of the river.

It is proposed to the enterprise that can go for implementation and become a co-author and leader of the new technology of dredging and anchoring of floating craft. The new device includes a new method of anchoring a vessel in place with a gradual movement of this place. The anchoring device itself is suitable for any floating craft. It will be especially effective for vessels of significant displacement, tankers and cruise yachts, which, when anchoring, cling to underwater pipes and cables, tear them or drop their anchors.
Implementation of innovations is such a complex process that the author alone is not able to manufacture a prototype, conduct a

full range of tests and create production of new products. Here, a team of authors interested in the final result is needed. I propose to create such a team that will be able to master and launch a line of new dredging equipment for flood prevention. It is more rational if an established shipbuilding or ship repair company takes on this. The formula and description of the invention are ready. If such a company is found, then we will decide together how to formalize the invention: in the form of a patent or Know-How.

The device operates using the river current. Its standard sizes can be located in a fairly wide range, depending on the need and the size of the rivers. The size of such devices is preferably several centimeters. It can be equipped with a small power plant with propellers and a software device that can, upon reaching a specified location, raise the dredging machine to the surface and return it to the beginning of the river. In essence, this is an unmanned underwater device with autonomous and programmable control - a drone that works independently and continuously, around the clock.