

A Boyan Slat has a goal in life - to clean up the world's oceans. He was [] by an early experience, one that had a [] impact on him. 'I first became aware of the plastic pollution problem when diving in Greece, coming [] more plastic bags than fish,' explains the Dutch-born [] I wondered, why can't we clean this up?

B Over the last half-century millions of tonnes of plastic have concentrated in five 'gyres', areas such as the Pacific Garbage Patch, a plastic soup stretching for millions of square kilometres.

[] wisdom suggested the use of nets, but that would cost billions of dollars and take thousands of years to complete. Not only that, but emissions from ships would likely [] out the benefits to the environment.

[] up by the problem, eventually Slat came up with a [] idea: 'I thought, why move through the oceans, if the oceans can move through you?' His innovative design involved constructing floating barriers which would collect [] for recycling whilst allowing sea life to swim underneath, all powered by naturally occurring ocean currents. The idea represented a [] shift, but had a long way to go before achieving recognition.

D Slat developed the idea as part of a school science project, for which he won Best Technical Design at the University of Delft, and that success set in motion a process that would lead to his current work. From childhood his creativity and originality were evident; he was always fascinated by

*some part skipped



E After school he went on to study aero-engineering at Delft University but quit after six months, as he was increasingly committed to developing the clean-up project and ready to dedicate all his time to it. The would-be entrepreneur set up a foundation, The Ocean Cleanup (TOC), but could find no sponsors. It was a [] experience, but the process, Slat says, helped him learn to communicate his ideas more effectively.

F But even when Slat contemplated [] he never lost sight of his goal, and a major breakthrough finally came. A TED talk he gave went [] with millions of shares, and this enabled Slat to access financial support. He was just nineteen, but his youth, as one TOC volunteer pointed out, was anything but a disadvantage. 'Boyan's got this energy that simply takes you in. He never gives up, he works incredibly hard, and his persistence is infectious.

G Slat now has over 100 scientists researching the oceans and is conducting pilot studies in various sites around the world. He acknowledges that the clean-up, if successful, is only the start. 'Although a clean-up will

fired

across

spurred on

Conventional

breakthrough

profound

paradigm

cancel

debris

US /de bri/ debris

pioneer

disheartening

failure

game-changing

viral