Research In Practice Grants (RPG) AW17-BENQW
Gravel and sand are the second most exploited raw material worldwide only after water.

(UNEP United Nations Environment Program)

Source: The New Yorker / United Nations Environment Program, UNEP
Tons without recycling of PET waste. Excessive exploitation of gravel and sand. Construction and housing sector on the rise. = ROCAPET concrete.

ROCAPET develops technology to reuse solid waste and incorporate it into the construction industry.
Target market

Category 23 - Construction.

- 236, Edification.
- 237, Construction of civil engineering works.
- 238, Specialized works for construction.

According to the North American Industrial Classification System 2018 (NAICS 2018)

For 2018 a slight growth of the construction industry is expected from 0.3 to 1%, considering that the physical budget investment for 2018 will have a real growth of 4.7% in relation to what was registered in 2017, the previous according to data from 09 of February 2018 of the Centro de Estudios Económicos del Sector de la Construcción (CEESCO)

In we create sustainable, innovative technology, in an accessible and inclusive manner.
**PET bottles collection and process to obtain particle size PET:**

- PET bottles Collection.
- PET bottle Cleaning.
- PET bottle crushing.
- PET granulated and regulated with the determination of the curve and granulometric adjustment.

**Manufacturing and quality control of sustainable concrete ROCAPET:**

- Curing concrete specimens, after hardening.
- Workability and consistency of fresh concrete.
- Dosage of traditional aggregates + Normed PET.
- Preparation for Production Area Based Team & Work Area Management.

**Testing and quality control of sustainable concrete ROCAPET:**

- Flexural strength Test of on concrete beams.
- Compressive strength test of on concrete cylinders at 7, 14 and 28 days.

**Reference:**
- Official American standard: ASTM C172 – SAMPLING FRESH CONCRETE
José Luis Hernández García
CAO.

Ernesto Alonso López de la Cruz
CEO.

Tilo Daniel Hernández Cadena
CTO.

Civil Engineering intern, leader and founder of ROCAPET.

Civil Engineering intern, co-founder specialized in the scientific and technological part.

Engineering Intern in Business Management, co-founder directs in administrative, and financial management.
Competidores

- Foaming agents. Air inclusions.
- Micro-pearls.
CONCRETOS SUSTENTABLES ROCAPET S.A. DE C.V.

JANUARY 11, 2018

VILLAHERMOSA, TABASCO, MÉXICO.

Timeline

- Perform all tests for materials and concrete
- Mixed brand registration
- Interview sector leaders
- Search for seed capital
- Product certification
- MVP (minimum viable product)
- Patent request
- Start of capital raising
- Release strategy
- Finish capital raising
- Development of new products
- Technology distribution license

Partnerships

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VILLAHERMOSA, TABASCO, MÉXICO.
ROCAPET (With leaflets reaches a maximum resistance of 300 kg/cm²)

We consolidate as a Sociedad Anónima (Legally constituted company).

Iteration process to new material (polypropylene pellets, nylon)

We seek to generate traction with activities that leave us profit to boost our main product.

Search for experts in concrete and plastics.
Thanks a lot.

Rocapet

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