

SOLCOMATR

(Soil Conservation Mat



Neo Concrete





ISO 9001:2008認証取得

1, Established: November 1990

2. Business: Concrete manufacturer, providing technology and services to public sector projects in mainly civil engineering environment (such as soil and water banks) with consideration to the environment.

3. Main Product: SOLCOMAT

① Share in Japan 56, 7% (2013)

2 No of projects 1, 695(1991~2010)

③ Total area 2,534km²(total) ※佐賀県面積 2,440km²

4. U R L : http://www.neo-con.jp/

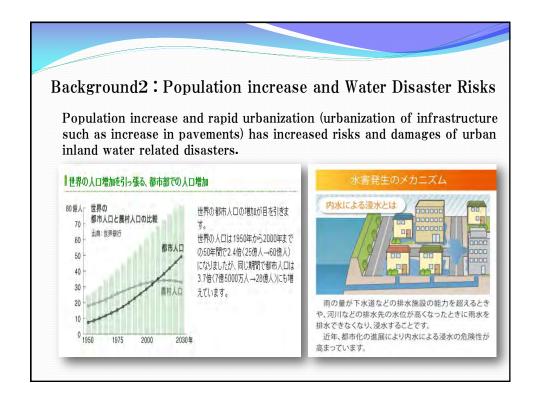
5, E - mail : info@neo-con.jp

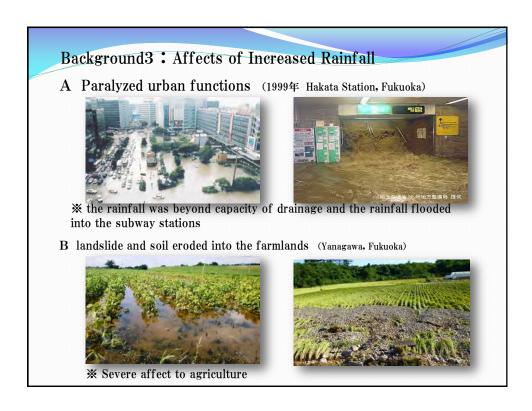


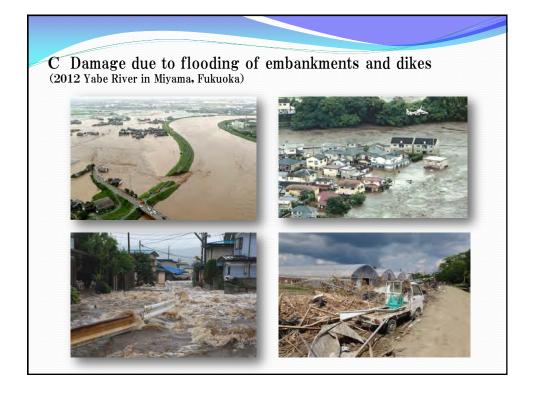




Background1: Increase of Rainfall Affected by climate change, the amount of rainfall has increased in the northern hemisphere above the equator. (Also in Japan, unpredicted and local short term heavy rainfall is causing Both human and economic damage) 北半球の年降水量偏差 50 40 30 20 1981-2010年平均からの差 (画) -20 -30 -40 気象庁 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 年



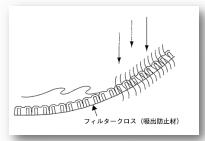




2. Features of SOLCOMAT®

2-1 Prevention of surface erosion

The opening in SOLCOMAT allows green vegetation to grow and extend its roots; this enables a triple effect of the block, greens, and soil to prevent erosion. The water which flows on the surface of SOLCOMAT is absorbed through the opening and will spread. The bumpy surface of the block and the greens will divert the shock of rainfall and waves. This mechanism will allow prevention of small erosions to develop into large erosions.





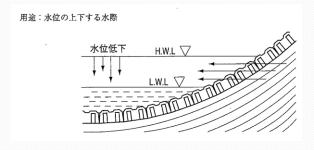
2-2 Flexibility

The blocks will be placed on the banks each with space in between. This allows flexibility to adapt and stay fit to the surface. This is most effective for soft soil areas with risk of erosion and land subsidence.



2-3 Permeability and prevention of absorbing soil

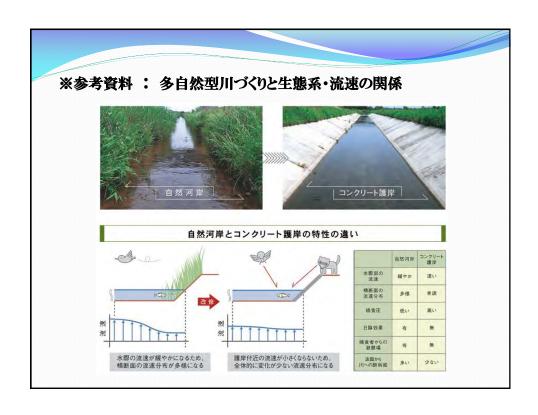
With the opening on the block and attached filter cloth, the permeability allows water underneath the block to flow out and decrease water pressure. This prevents the earth below the water body from losing strength. Also as the filter cloth prevents the soil from erosion.

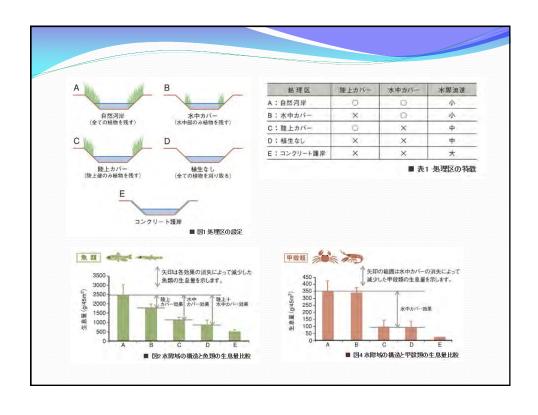


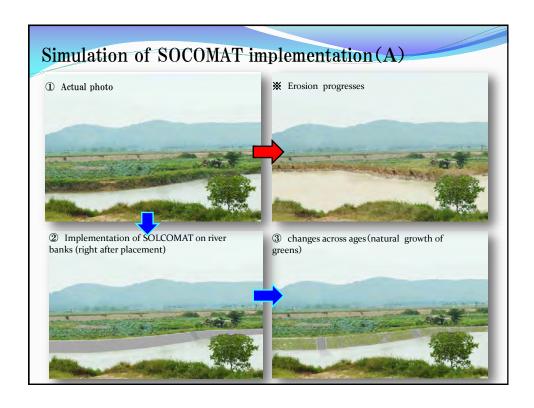
2-4 Effects of cover vegetation and greenery

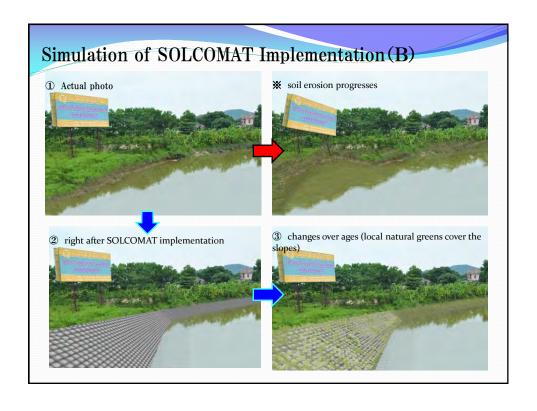
By planting greens or use cover soil for the openings of the blocks, the greens will spread its root and anchor itself to the banks. This will further help SOLCOMAT to be stably placed. It is also possible to create a 'nature rich river works' with special consideration to the surrounding eco systems, which can restore or even improve the natural environment.

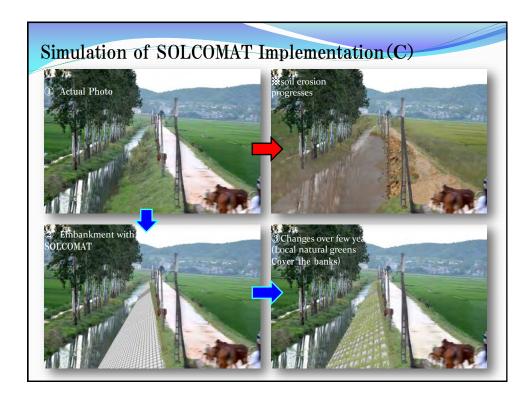












Potential Partnerships with countries/cities in Asia and the Pacific region

1 Partnership with Local Company for manufacture and sales

- 1-1 Study on availability of raw materials and manufacture of sample products (use of local factories using locally available materials)
- 1-2 Market research and strategizing

2 Partner with Local university/research institutions

- 1-1 Information study on civil, architecture and environment areas
- 1-2 Joint development of locally adaptable product with locally available materials.

3 Consultation for local authorities

- 1-1 Information collection for public sector works
- 1-2 Formulation of disaster related infrastructure planning and consultations on suitable construction methods.

Other Environmentally Friendly Products



FURUSATO (interlocking blocks with flexible



UNEVEN (split bocks with fish nest functions



BIOLOG FILTER (100% natural fiber water filtration)



GREEN COSMO (Low maintenance greenery embankment methods)

Summary

- It is important to plan and implement water disaster preventive measures to water bodies such as river banks from the viewpoint of saving lives and property of the people, and that these concrete products can be very effective.
- Using concrete should not necessary mean to encase and solidify, but to consider the eco system and environment and select the most suitable and adaptable method and product.
- 3 SOLCOMAT is a product and method which is adaptable to any country and Neo Concrete wishes to contribute to creating an environment that is resilient to disasters and where all people in Asia would be able to live in safety.



自然環境にやさしく、 地域の安心を支える、 誠実なコンクリート製品を考える。



株式ネオ コンクリート