



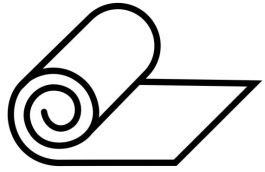
# Market Research Report on GCCM Liners

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*Powered by GNA Analytics*



## GCCM Manufacturers Around the Globe



# GCCM Supplier Index

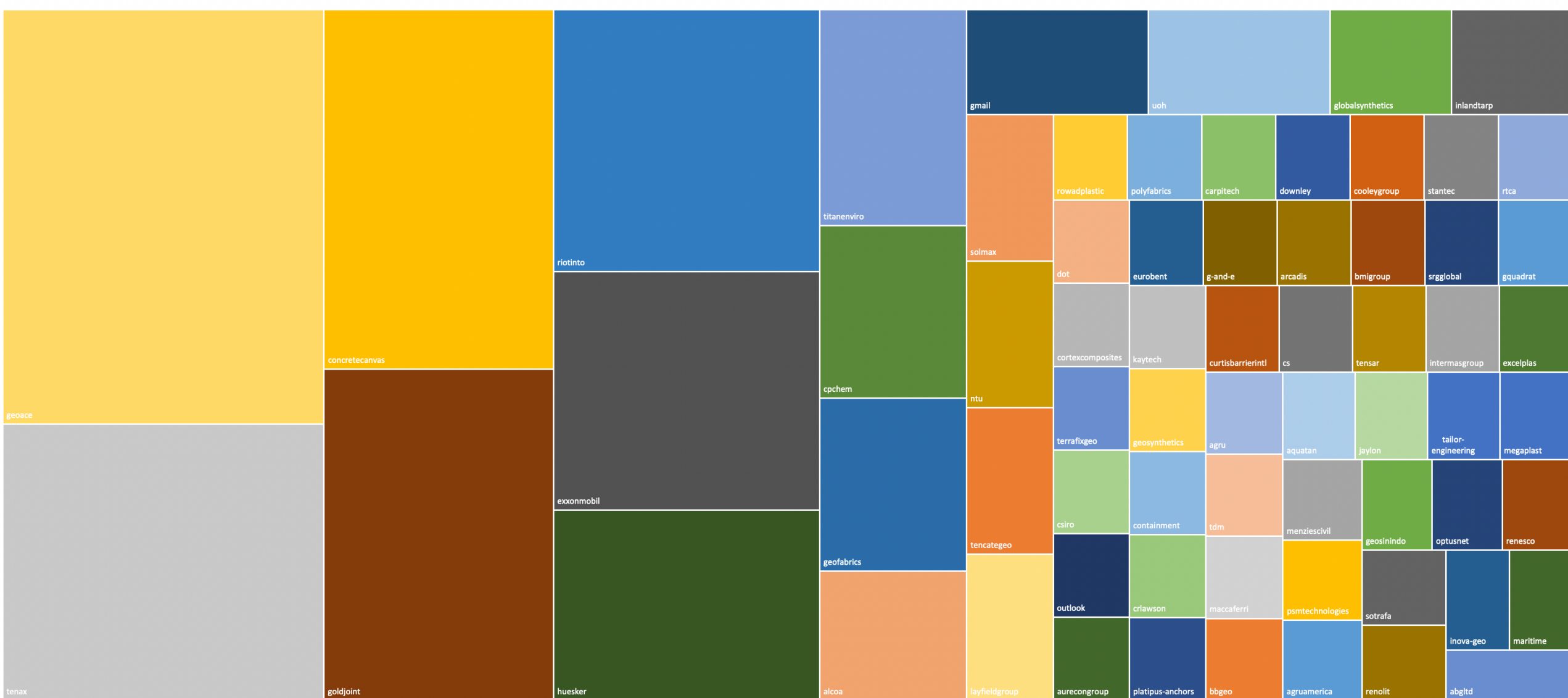


Country of Origin	Name of Product	Get a Quote
Australia	AquaLiner®	<a href="mailto:greg@itlau.com">greg@itlau.com</a>
China	Cement Blanket®	<a href="mailto:Kelly@cementblanket.com">Kelly@cementblanket.com</a>
China	Concrete Cloth Mat®	<a href="mailto:Stefan.jiao@ptt-china.com">Stefan.jiao@ptt-china.com</a>
Germany	DuoLiner HGS®	<a href="mailto:schroeder@gquadrat.de">schroeder@gquadrat.de</a>
Poland	Tiltex® Concrete on a Roll	<a href="mailto:m.czekala@eurobent.com">m.czekala@eurobent.com</a>
Thailand	Concrete Fabric®	<a href="mailto:contact@scg.co.th">contact@scg.co.th</a>
Wales (UK)	Concrete Canvas®	<a href="mailto:garry.watkins@concretecanvas.com">garry.watkins@concretecanvas.com</a>
USA (Americas)	Cortex® Cloth	<a href="mailto:ckrasnoff@cortexcomposites.com">ckrasnoff@cortexcomposites.com</a>

\* GCCM as per ASTM D8173 - 18 Standard Guide for Site Preparation, Layout, Installation, and Hydration of Geosynthetic Cementitious Composite Mats

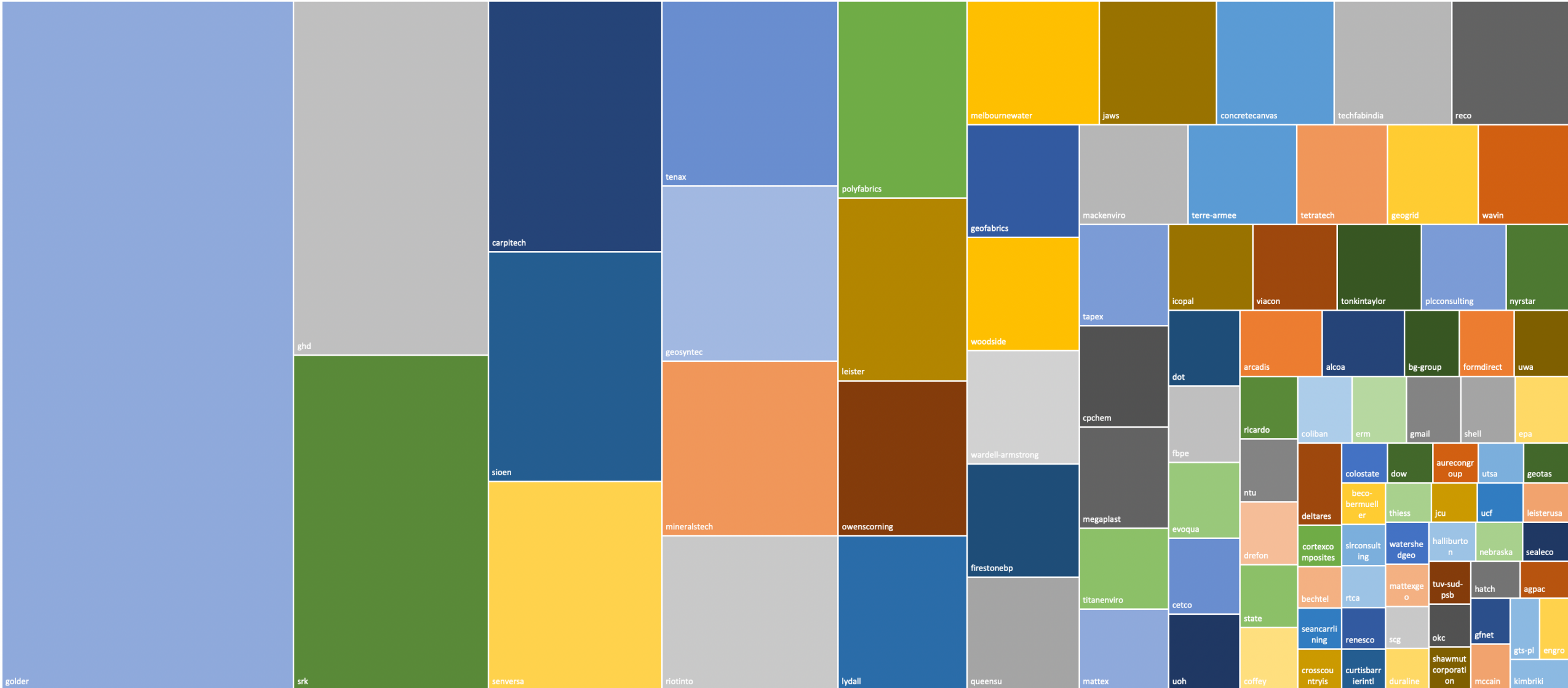
# GCCM Competitor-Comparator-Customer Landscape

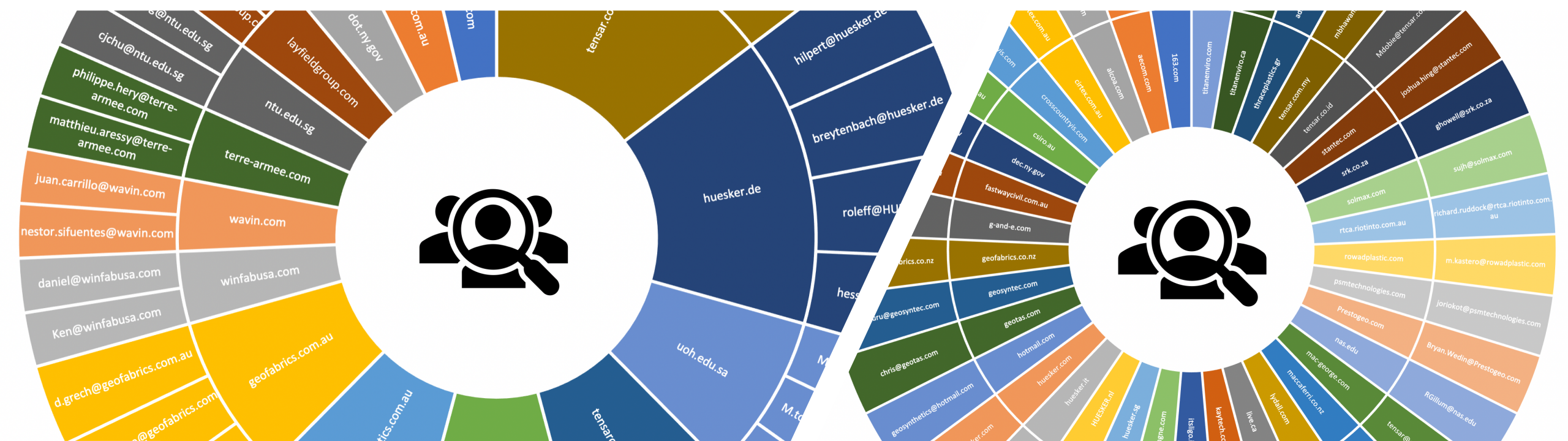
■ megaplast ■ bbgeo ■ intermasgroup ■ concretecanvas ■ gquadrat ■ globalsynthetics ■ srgglobal ■ bmigroup ■ inlandtarp ■ arcadis ■ eurobent ■ aurecongroup ■ terrafixgeo ■ solmax ■ cortexcomposites ■ rowadplastic ■ polyfabrics ■ carpitech ■ downley ■ cooleygroup

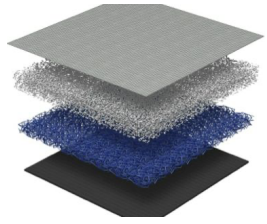


# GCCM Competitor-Comparator-Customer Landscape

watershedgeo formdirect queensu melbournewater concretecanvas polyfabrics carpitech viacon megaplast icopal curtisbarrierintl geotas cetco mineralstech techfabindia geogrid utsa titanenviro geofabrics aurecongroup







# GCCM Patents Around the Globe



Cortex has designed and filed patents on many different proprietary GCCM products which it developed, in particular GCCMs of connected layers with: nonwovens, staples, pins, geogrids, thermoformable resin, male-female connection pins, blocks with water conduits, connection wires, sewing, adhesive injected elements, etc. (as shown schematically in the diagrams below).

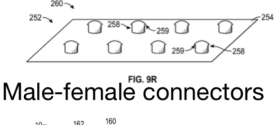
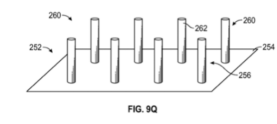
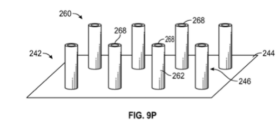
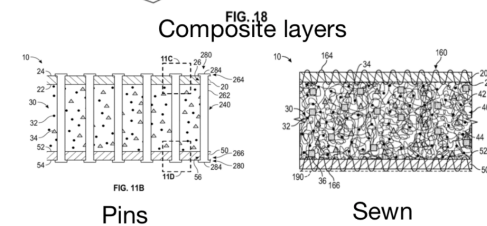
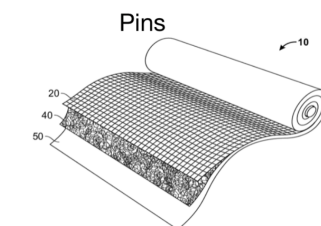
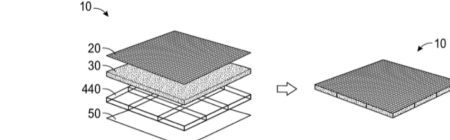
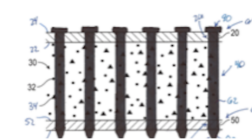
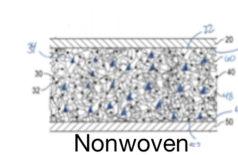
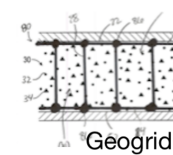
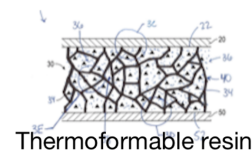
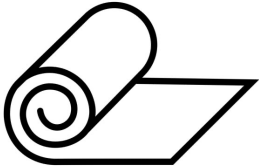


FIG. 3  
Composite layers

# Detailed Analysis – GCCM Prefabricated rolled cement composite mat/liner



HAVE A PROJECT?

REQUEST A QUOTE

QUOTE



# SCG Concrete Fabric

The defining attributes that SCG Concrete Fabric offers are strength and high flexibility. SCG Concrete Fabric is versatile, it can be adjusted to any form needed. It is convenient, fast, and easy to install, thus reducing the cost of labor in the process. It is suitable for creating basic structures such as laying dykes, erosion prevention, ponds, agricultural ponds, walkways and it can be used to strengthen areas of land, for example.



**Application** : Reservoir  
**Reference Site** : Concrete Agricultural Reservoir,  
Lampang, 5000 square meters



**Application** : Ditch Lining  
**Reference Site** : Agricultural Ditch Lining,  
Ratchaburi



**Application** : Berm  
**Reference Site** : Berm for Flood Protection  
at Nong Kae industrial estate,  
Saraburi

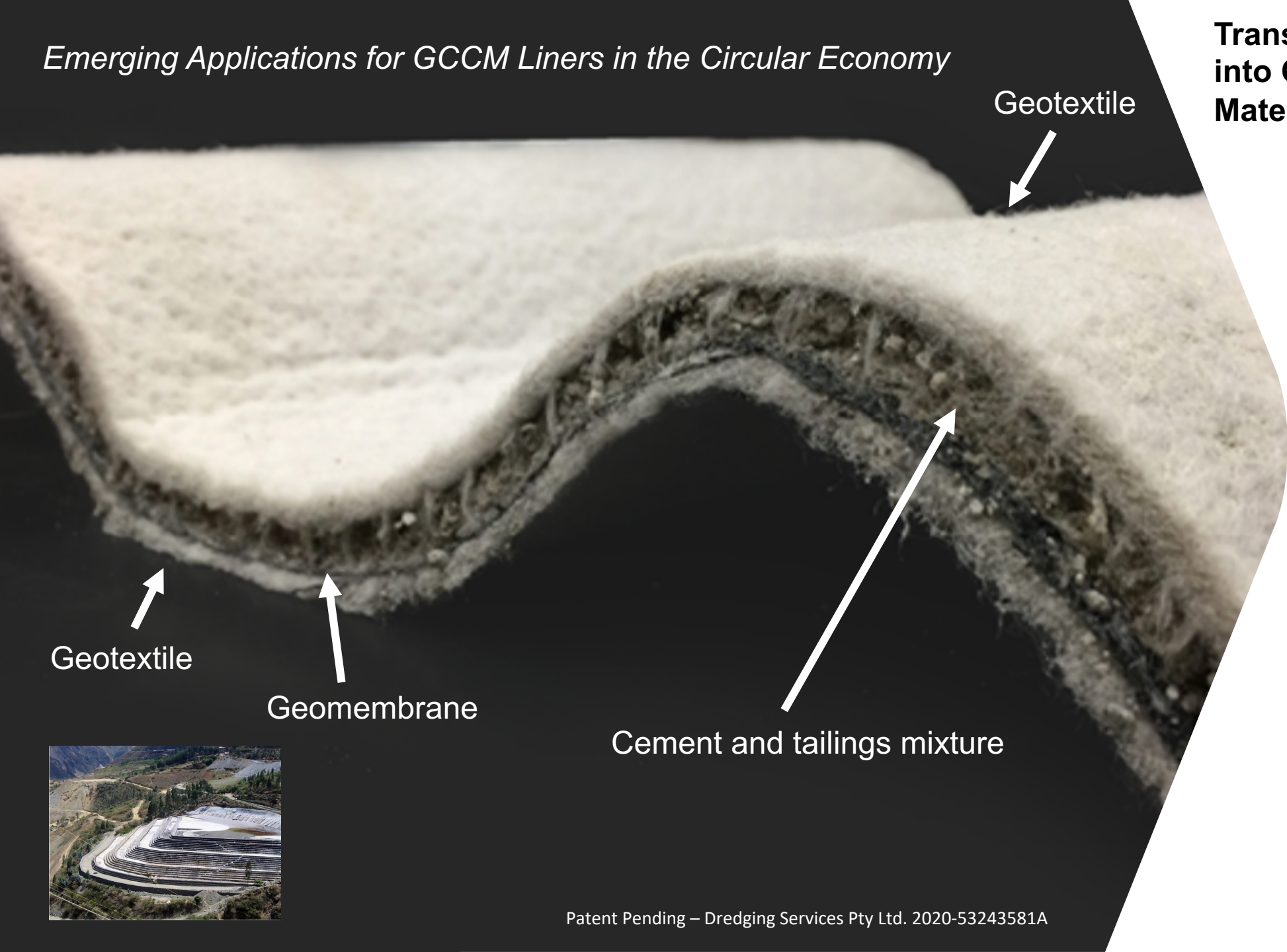


**SCG**

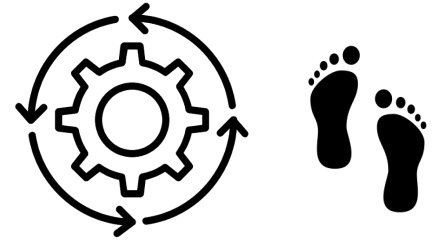
SCG Cement-Building Materials Co.,Ltd.  
1 Siam Cement Road, bangsue, Bangkok 10800, Thailand  
Tel. 02-586-2222 Fax. 02-586-3072

Storage Recommendations

# Emerging Applications for GCCM Liners in the Circular Economy



## Transforming Mine Tailings into Cement Replacement Material for GCCM Liners



The GCCM liner can then be used to line new tailings containment lagoons thus creating a circular economy for tailings reuse and tailings storage.

This application reduces tailings disposal costs, creates a by-product revenue stream and produces recycle-content GCCM liners with lower carbon footprint and more favourable LCA.





# *Emerging Applications for GCCM Liners in Airforce Runway Repair*

## *Rapid Roll-Out of Airport Runways in Conflict Zones*

<sup>1</sup>College of Civil Aviation, Nanjing University of Aeronautics and Astronautics, Nanjing, China

<sup>2</sup>College of Aeronautical Engineering, Air Force Engineering University, Xi'an, Shaanxi, China

<sup>3</sup>Support Group Directly under Air Force Logistics Department, Beijing, China

# R&D Areas: GCCM Enhancement Through Functional Additives



Bekaert Reinforcements  
Investigating Novel GCCM  
Geocomposites



Nycon's Mono-Filament and Multi-  
Filament Reinforcing Fibres  
Enhance GCCM Properties for  
Bespoke Applications



Euclid Chemical Developing  
Concrete Additives to Produce  
Stronger GCCM Products