

28 sept 2017
BMW Startup Challenge. Finalist Company Profiles.

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1. Leydenjar

LeydenJar Technologies BV is a spin out venture from energy research centre ECN of the Netherlands (High Tech Campus Eindhoven). As a cross-over from thin film PV technology, we develop a pure silicon anode for use in Lithium-Ion battery cells. Our silicon anode has a tenfold capacity over existing graphite anodes, which leads to an increase of energy density at battery level of up to 50%. For Electric Vehicles, that would mean a substantial increase in its range and significant drop of the cost per kilometre. Our PECVD production technology is scalable and can fit in the existing battery manufacturing process.

2. Spatial

Spatial.ai powers vehicles to answer questions only a local would know. We are a location data company that uses conversations from social networks to understand how humans move and experience the world around them.

3. Wellsun

Wellsun has developed the Lumiduct which enables full glass facades to generate more energy than facades completely blinded with traditional solar panels. The Lumiduct creates an ideal indoor building climate by selectively shielding the intense, direct light which is responsible for the glare and overheating of the building, and turns this into electricity. At the same time, the Lumiduct is transparent for the soft, diffuse light which is experienced as pleasant daylight. Therefore the Lumiduct is the ideal sun shading, resulting in 2 to 3 times as much daylight inside the building compared to ordinary sun shading. With over 15 times more power as electricity producing windows, the Lumiduct generates a huge amount of electricity, which makes it possible for office buildings to become energy positive. With the excess of electricity produced, the employees can have the batteries of their electric cars charged and save on electricity at home.

4. Filigrade

FiliGrade is een jonge, technische onderneming, opgericht in december 2014, gericht op het

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inzetten van digitale watermerk technologie.

Een FiliGrade 2D watermerk wordt ingevoegd in het digitale artwork, is onzichtbaar voor het menselijk oog, neemt geen ruimte in en is niet te verwijderen. Het is te lezen met een smartphone en met digitale cameras. Watermerken vergen geen aanpassingen in het drukproces, in tegenstelling tot speciale inkt of RFID-chips waarmee onze concurrenten onderscheid maken tussen verschillende producten of tussen 'echt' of 'namaak'.

FiliGrade 3D watermerken worden fysiek aangebracht in de matrijs van een fles, schaalpje of kunststof onderdeel. Daardoor wordt het watermerk zonder extra productiekosten aangebracht bij het blazen of dieptrekken. Vervolgens wordt het watermerk gebruikt onder andere voor het sorteren in de afvalstroom. Zo wordt precies bekend uit welk type kunststof een object bestaat, PET, PP, multilayer, transparant, gekleurd. Watermerken faciliteren het selecteren tot hoogwaardig herbruikbaar materiaal.

5. MotoShare

Motorcycle riding becomes more and more popular, but more than 50% of the 39 million motorcyclists in Europe choose not to own a motorcycle.

On the other hand, owners only ride on average 3,000-5,000 km per year. So with countless motorcycles not being used, over half of the motorcyclists don't have easy access to a motorcycle.

MotoShare enables motorcyclists to safely share motorcycles in a close-knit community.

We launched in June 2016 and within one year became the biggest motorcycle company in the Netherlands.

With our partner OHRA we have co-developed a unique insurance product to cover both owners and renters in case of an accident and for problems on the road we partner with ANWB to offer a fast roadside assistance .

Together, we make motorcycling accessible to everyone!

6. EZY Mobility

EZY Mobility is a service provider specialized in wireless charging solutions for electric cars, buses, trucks and virtually any vehicle using a battery. With over 7 years of experience, we bridge the gap between the complexity in the OEM-industry and the specialized knowledge of the

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public and private wireless charging infrastructure.

7. Etho

Based out of San Francisco, CA, Etho is an augmented reality motorcycle helmet startup. With features such as immersive augmented reality, smart voice assistant with natural language processing, and location crowdsourcing from fellow riders, Etho will allow motorcyclists to stay connected while staying safe.

8. RADYGO

RADYGO is the leading innovative impact venture that develops patent-pending technology and products that evidently reduces electromagnetic radiation exposure to (young) people.

With a TNO -roven track record in fashion (launching customers are Noppies and Kultivate), RADYGO is now expanding its certified solutions into the next branch. We are enabling car manufacturers to design a RADYGO Smart electric vehicle with the lowest radiation exposure possible.

Current and upcoming global scientific acceptance of electro sensitivity and elektrosmog, impacts at least 10% of our society. The time for responsible products following the ALARA (As Low As Reasonably Achievable) principle has come.

Together with its team of dedicated specialists, RADYGO is the trusted technology partner to supply sustainability to companies and create a positive long-term impact to and for their customers. Car drivers will now experience less 'elektrosmog' while driving an hybrid or an electric car.

9. Skytree

Skytree extracts CO2 from closed spaces to improve the quality of indoor air and to reduce energy consumption for buildings and increase the range for cars as a result of the higher efficiency of the HVAC systems. In closed confined spaces, the CO2 level builds up leading to adverse health impact due to polluted air. The CO2 build-up also leads to up to 40% higher energy costs for cooling/heating as fresh air needs to be circulated to ventilate the space.

Skytree is a spin-off from the European Space Agency and has developed Direct Air Capture (DAC) technology for CO2 extraction based on a unique CO2 sorbent that efficiently scrubs the gas molecules from ambient air. It has 4 internationally registered patents for the technology and

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its applications.

Skytree is developing CO2 extraction systems for the automotive sector, building HVAC systems and air conditioners.

10. Sense Glove

At Sense Glove we see virtual and augmented reality as an enabler for real world applications. Our belief is that providing interactions with objects and persons equal to those in the real world is the only way to fully utilise the potential of VR and AR. That is why we are creating the Sense Glove; The Sense Glove provides the most natural interaction in virtual and augmented reality. With the Sense Glove virtual objects are brought to life, you can feel, touch and interact with them as if they are real.

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Noot voor de redactie

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Wilt u geen persberichten meer van ons ontvangen? Klik [hier](#)

Volg BMW Nederland op Facebook, Twitter en YouTube.



De BMW Group.

De BMW Group is met de merken BMW, MINI, Rolls-Royce en BMW Motorrad wereldwijd de leidende fabrikant van premium auto's en motorfietsen en biedt ook premium financiële en mobiliteitsdiensten. Als internationaal concern maakt BMW Group gebruik van 31 productie- en assemblagevestigingen in veertien landen. Het wereldwijde verkoop- en distributienetwerk spreidt zich uit over meer dan 140 landen.

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In 2016 verkocht de BMW Group wereldwijd ongeveer 2,367 miljoen auto's en 145.000 motorfietsen. De winst voor belastingen was € 9,67 miljard en de omzet € 94,16 miljard. Op 31 december 2016 bood de onderneming wereldwijd werk aan 124.729 medewerkers.

Het succes van de BMW Group is van oudsher gebaseerd op langetermijndenken en verantwoord ondernemen. De onderneming heeft ecologische en sociale duurzaamheid in haar gehele waardeketen verankerd. Een allesomvattende productverantwoordelijkheid en spaarzaam omgaan met natuurlijke bronnen maken integraal deel uit van de strategie.

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