Geeny

IoT MAGAZINE

MWC 2023
The mobile world came
together in Barcelona

4YFN
Joyn the startup
movement in 2023

IoT News
News, Events
and more

Juergen

Torre Glòries, formerly known as Torre Agbar

Editorial

Dear reader,
welcome to the first issue of our new GEENY IoT magazine.

In todays world, digital communication and the ever-increasing inter-connectedness of everything are playing an ever greater role.

As a result, we are constantly flooded with new information from various sources and don't really know where to start or what is really important. Yet information gathering should also be a bit of fun and ideally not only serve to provide information, but also be linked to a view beyond the end of one's nose.

That's exactly what we want to do with our new magazine: inform you about the latest developments, especially in the field of IoT, while not losing sight of the fun. In this first issue, we report on the Mobile World Congress in Barcelona, which we naturally attended as one of the most important events of the year. But we combine this with information worth reading about this wonderful city, because Barcelona has so much to offer, and is always worth a trip!

We hope you enjoy reading and would be happy to receive feedback. Be it criticism, feedback or suggestions for topics: Just write me an email to news@geeny.io, and I will answer. I promise!

Your editor-in-chief
Juergen Wieshoff

IoT-News

Orlando Economic Partnership Unveils First-of-its-Scale Regional Digital Twin

The Orlando Economic Partnership, along with Unity (NYSE: U), the world's leading platform for creating and operating real-time 3D (RT3D) content, unveiled a first-of-its-kind digital twin that showcases the entire Orlando region. Operational for the first time, the brand-new 3D technology maps 800 square miles of the region and recreates 40 square miles in high-fidelity, including Orange, Seminole and Osceola counties which makes it the first large regional digital twin in use by an economic development organization.

Digital twins are dynamic virtual copies of physical assets, processes, systems and/or environments that look and behave identically to real-world counterparts. Orlando's digital twin is essentially a virtual copy of the entire region with different data sets layered throughout. "Using this technology, Orlando has the ability to demonstrate to established companies, start-ups, entrepreneurs and thought leaders from around the globe the possibilities available to them in our city – from real estate options and infrastructure to the proximity of other like-minded companies and our diverse talent pool," said Orlando Mayor Buddy Dyer.

To learn more about the Partnership and the Orlando region, please visit Orlando.org.
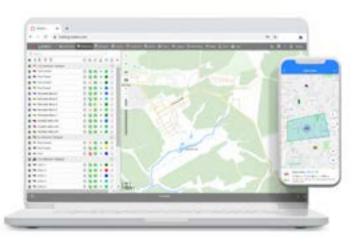
Wialon Launches LeaseControl: A Telematics Solution for the Vehicle Leasing Sector

Wialon, a leading telematics and IoT platform with over 3.4 million vehicles and other assets connected across the globe, has launched LeaseControl, a streamlined version of its platform, tailored for the burgeoning vehicle lease market. LeaseControl is a GPS tracking solution for covering safety challenges and protecting the assets of the companies operating in car financing, auto loans, vehicle leasing, high-risk auto deals, and BHPH (Buy Here Pay Here) dealerships.

LeaseControl gives access to a growing market of car auto lending. The number of vehicles leased on the global car after sales market grew from 8 million to 12 million cars a year between 2019 and 2021.
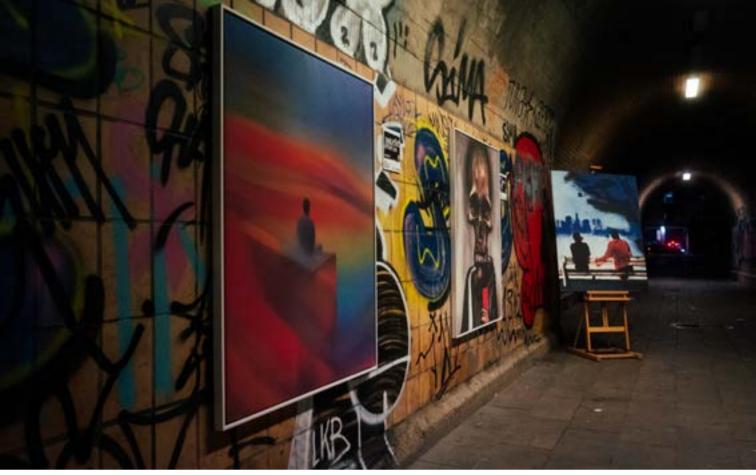
The solution retains the most valuable features from Wialon – GPS tracking, geo-fencing, remote operation and shut-down, automatic notifications, and high-quality 24/7 technical support – providing the tools to tackle the most pressing challenges faced by dealerships, namely non-payment, auto theft, and vehicle recovery.

Via GPS tracking, LeaseControl enables dealers to know the precise location of their vehicles at all times, and remote operation enables them to switch off the car engine remotely if necessary.

Disabling the engine remotely may be necessary to protect the asset should a payment be missed, or the vehicle leave a pre-determined geo-fenced area, such as crossing an international border, or the tracking device being disconnected. These tools put dealers back in control of their assets, making recovery, should it be needed, much easier and cheaper.

More information

Quest Global Teams with NVIDIA to Build Next-Gen Omniverse Digital Twin Solutions for Manufacturing Industry

tailored Quest Global, one of the world's fastest-growing engineering services firms, announced its development of new services and solutions, based on the NVIDIA Omniverse Enterprise platform. These new services and solutions will assist in delivering the best 3D visualization, simulation, design collaboration and digital twin solutions for the manufacturing and automotive industries.

Through this association, Quest Global aims to facilitate the transformation of the traditional manufacturing processes and facilities by enabling manufacturers to augment their physical production environments with large-scale, AI and IoT-enabled, digital twin counterparts. These digital twins will enable manufacturers to optimize their manufacturing, logistics, and warehouse processes, reduce waste, and unlock operational efficiencies.

NVIDIA Omniverse Enterprise is an end-to-end 3D simulation platform that helps organizations develop and operate physically accurate, perfectly synchronized and AI-enabled digital twins. Building the factories of the future requires uniting disparate datasets from many

3D digital content creation (DCC) and simulation applications in full fidelity, a capability uniquely enabled by Omniverse Enterprise, then connecting to scalable AI platforms such as NVIDIA Isaac Sim for robotics simulation and Metropolis for vision AI applications.
More information

German Magazine Hinz&Kunzt shares emotional life stories of homeless people with AI-Artworks

The magazine Hinz&Kunzt and the museum Hamburger Kunsthalle opened the Homeless Gallery with an open-air vernissage in Hamburg. The exhibition features artworks created by homeless people from Hamburg.

Artificial Intelligence (AI) enables the artists to put the stories of their personal lives on canvas.
The artists used AI to document the life stories of the homeless in the artworks. The software does not do any creative work in the process. All artworks are created based on the life stories of the homeless artists. „AI enables the artists to share their moving stories in personal works of art. Those who know the stories behind the pieces see them with different eyes. That's what makes this exhibition so emotional", says Alexander Klar, Director of the Hamburger Kunsthalle.

Vernissage as opening of touring exhibition across Hamburg

The Homeless Gallery will be travelling through Hamburg as a pop-up exhibition and all pieces will then also be exhibited in public places.

„Like the artists, the exhibition itself is ‚homeless'. We exhibit the pieces in the same places the artists live. Under bridges, in subways or in parks," explains Jörn Sturm, Managing Director of Hinz&Kunzt.

Artwork auction proceeds benefit homeless people in Hamburg

After the pop-up exhibition, the Homeless Gallery artworks will be auctioned. All proceeds will support homeless people in Hamburg.

iTAC shows how manufacturing can benefit from the Artificial Internet of Things

Combining AI with IoT (AIoT) opens up new potential for creating value from data. The focus is on collecting, analyzing and interpreting data from machines and sensors with the help of an MES/MOM. In this way, predictions can be derived and self-learning processes can be developed. The MES/MOM specialist iTAC (www.itacsoftware.com) demonstrates the possibilities for implementation.

„With the Internet of Things and a multitude of networked machines, more data is available. However, this data is worthless if it cannot be used in decision-making processes. It must therefore be processed and evaluated by AI applications as quickly as possible. Artificial intelligence can also draw comparisons with other processes, systems and their data and, by learning from experience, independently solve future tasks, avoid errors and optimize processes," explains Martin Heinz, board member of the iTAC Software AG.

The IoT structure therefore needs artificial intelligence, which in turn needs the Internet of Things as a source of data. The iTAC.IIoT.Edge software, a part of the MOM system (Manufacturing Operations Management), combines IIoT data with MES data to form flat data structures for a real time analysis.

„Machine learning and AI-based applications in the field of analytics enable more sophisticated and higher-quality analyses than conventional

technologies. Artificial intelligence can, for example, find complex patterns in the data and make predictions," explains Martin Heinz.

By using iTAC's edge solution, numerous ML/AI use cases can be developed for advanced and digitalized manufacturing, for example in the area of prediction. The corresponding monitoring of machine and sensor data makes it possible to predict machine failures (reduction of almost 70%).

The possibilities are numerous. iTAC offers a use case library that enables customers to implement applications quickly and easily.
More information

New IoT Security Explanation Video from Geeny

IoT SIM card provider Geeny, part of Telefonica Germany, has released a new explainer video on security and IoT. It briefly explains what risks exist and how Geeny's new system deals with them.

Geeny connect offers highest security standards compared to device-based encryption, and also longer runtimes due to lower power consumption.
Take a look!

May 23-25, 2023
ANGA COM, Cologne

ANGA COM is Europe's leading business platform for Broadband, Television and Online. It brings together network operators, vendors and content providers on all issues of broadband and media distribution. The next show date is 23 to 25 May 2023 in Cologne/Germany.

ANGA COM's key topics include: Gigabit Networks, FTTX, 5G, OTT, AppTV, Cloud TV, Video Streaming, Smart City and Smart Home.

The last ANGA COM counted 390 exhibitors from 33 countries and more than 18,000 participants from 82 countries. Among the largest exhibitors are telecom vendors such as Amadys, Astra, AVM, Casa Systems, CommScope, GM Plast, HUBER+SUHNER, Opternus, Teleste and WISI. The speaker line-up of the conference programme includes C-level representatives of Deutsche Telekom, Vodafone, Telefónica, Deutsche Glasfaser, PYUR, TDC, freenet, NetCologne, M-net, ProSiebenSat.1, RTL Television, Discovery, DAZN and Sky.
More information

April 17-21, 2023
Hannover Messe

HANNOVER MESSE is the world's premier trade fair for industry. Its lead theme, "Industrial Transformation – Making the Difference" unites the display sectors of Automation, Motion & Drives, Digital Ecosystems, Energy Solutions, Engineered Parts & Solutions, Future Hub, Compressed Air & Vacuum and Global Business & Markets. The key topics include CO_2-neutral production, energy management, Industrie 4.0, artificial intelligence and machine learning, and hydrogen and fuel cells. The exhibition program is complemented by a series of conferences and forums. The next edition will be hosted in Hannover from 17 to 21 April 2023. The Partner Country at HANNOVER MESSE 2023 is Indonesia.
https://www.hannovermesse.de/en

May 4, 2023
aws summit Berlin

Get ready for the AWS Summit Berlin! At this free event you'll discover how the cloud is accelerating innovation for businesses of all sizes. Unlock new AWS platform skills in a variety of interactive sessions and expand your horizons with talks and workshops from experts.

All AWS Summits feature a keynote address highlighting the latest announcements and customer testimonials, technical sessions led by AWS engineers, and hands-on technical training. You will learn best practices for deploying applications on AWS, optimizing performance, monitoring cloud resources, managing security, cutting costs, and more. You will also have opportunities to meet AWS staff and partners to get your technical questions answered.
More information

June 19-22, 2023
IOT Week Berlin

IoT Week is an annual event organized by the IoT Forum since 2011. The IoT Week conference gathers industry and academia representatives from around the world. So far editions of the IoT Week were held, respectively, in Barcelona, Venice, Helsinki, London, Lisbon, Belgrade, Geneva, Bilbao, Aarhus and Dublin.

The last edition attracted about 1600 participants specialized in the IoT domain, including research centres, research projects, large industries, SMEs, developers, standards development organizations and policymakers, including the European Commission.

Join over 1000 thought leaders from business, tech, and science at IoT Week 2023 in Berlin to explore the latest digital technologies and trends shaping societies and businesses towards a sustainable, data-driven global economy.

The conference aims to provide insights into the future of technology and its impact on business and life.

IoT Week 2023 Program is packed with engaging sessions, inspiring speakers, and exciting networking opportunities, startup competition, all centered around the two missions - Planet and Environment and Human & Society.

With a focus on cutting-edge approaches to sustainable supply chains, digital and sustainable transformation of our societies, and the latest advances in digital technology, the program is designed to provide valuable insights and actionable strategies for all attendees.
Explore IoT Week 2023 Program
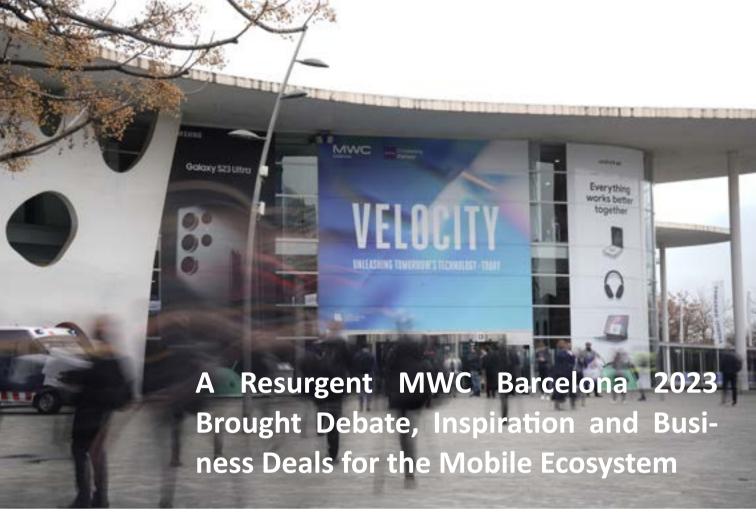
April 19, 2023
AWS UG Munich April Event
We're happy to continue with a new sponsor in a new location in the city center of Munich! As always with some great talks about the different aspects on how to be successful with the cloud.
Thanks to Telefónica we're able to meet at the Wayra offices and get food and drinks provided!

AGENDA:
18:30:
Doors open, networking, drinks, food
19:00:
Markus Ostertag (Ryte - CTO)
Recent AWS announcements
19:45:
Timo Dorsch-Worthmann (Telefónica - Innovation Lead Cloud):
Security & efficiency for scaling IoT networks
20:45:
Levent Kent (AWS - Solutions Architect) - Event Driven Architectures
21:45:
More drinks, more networking,
more information

A Resurgent MWC Barcelona 2023 Brought Debate, Inspiration and Business Deals for the Mobile Ecosystem

MWC convened over 88,500 attendees from 202 countries and territories, including policymakers and business leaders from the mobile ecosystem and beyond

The GSMA just wrapped up MWC Barcelona 2023, the world's largest and most influential connectivity event. There were more than 88,500 attendees, of whom 56% came from sectors adjacent to the mobile ecosystem.

"MWC Barcelona is back in full force. The level of energy and support from partners, businesses and policymakers has exceeded our hopes and expectations," said GSMA Ltd's CEO, John Hoffman. "I am continuously awed and humbled by the sense of community, innovation, excitement and business generation at MWC Barcelona.

Anecdotally, exhibitors and partners are reporting that their expectations have been surpassed and, in some cases, have beaten 2019. On behalf of the GSMA, I would like to express our sincerest thanks to all new and returning attendees, exhibitors, speakers, partners and sponsors, without whom this gathering would not be possible."

Based on pre-event forecasting, the GSMA expected €350 million of economic impact and 7,400 part-time jobs would be created in the city of Barcelona by MWC Barcelona 2023. We now expect to exceed this forecast and will provide an update in due course.

"I am delighted to see so much positive momentum, with halls bustling with energy for four full days. As digital technologies continue to develop, there is new excitement in the air that MWC captured so well. The transition to Web 3.0 will trigger a new explosion in network traffic and it is critical that we work together to prepare. Consumers living in a data-driven world need increasing amounts of capacity at the edge of the network to extend the capabilities of cloud computing and our industry is well placed to do it," said GSMA's Director General, Mats Granryd.

MWC creates a unique platform for the amplification of industry announcements and thought leadership. As digital transformation flourishes around the world, attendees came to be inspired by curated content - from the father of the cell phone, Martin Cooper, honoured as the first recipient of the GLOMO Lifetime Achievement

Award, to the pioneers, thought leaders and innovators of Web 3.0.

The event theme "Velocity" was brought to life in key themes discussed across multiple platforms. These included 5G, AI, the fair share debate and public policy, as well as cross-sector collaborations, including the GSMA's Open Gateway initiative. The GSMA also launched a dedicated zone at MWC Barcelona to raise awareness of the usage gap, an under-reported global issue which prevents 3.2 billion people worldwide from reaping the benefits of access to digital services.
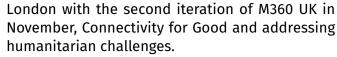
Thanks to its increasingly diverse nature, the show provides an excellent platform to foster innovation and debate, network and make new connections, and deliver the key decision-makers necessary to make deals.

It is also the largest global gathering of policymakers who enable the digital economy. The Ministerial Programme brings together the world's leaders and decision-makers to convene as they work to navigate today's complex world, with the technologies that will pave the way for economic recovery and a digitally inclusive future. Meanwhile, 4YFN showcased and connected startups, investors and companies to launch new business ventures together. Across the exhibitor stands, speaker platforms, special summits and brand-new feature areas, MWC showed one more time that it is the place to see tomorrow's technology today.

Unlocking the power of connectivity
MWC Barcelona is the first event of the 2023 MWC series, and the team is hard at work planning the subsequent iterations of MWC and launching the Mobile 360 series in 2023. Join us as we continue our journey to unlock the full power of connectivity at MWC Shanghai, which is scheduled for 28-30 June 2023; MWC Las Vegas 26-28 September 2023; MWC Africa 17-19 October 2023.

In addition, the Mobile 360 event series will kick off 16-17 May with the M360 Eurasia in Baku. Further editions include M360 LATAM returning to Mexico City 31 May-1 June; the first-ever M360 UK, focused on Industry & Security, will take place in London between 11-12 July; M360 Asia Pacific in Seoul in September; M360 MENA will take place in Riyadh in November; and we will finish the year back in

Over 88,500 people attended in-person, 56% from industries adjacent to the core mobile ecosystem, with Attendees from 202 countries and territories

London with the second iteration of M360 UK in November, Connectivity for Good and addressing humanitarian challenges.

Please also note the date for next year's MWC Barcelona 2024, which will take place 26-29 February 2024.

MWC Barcelona 2023 in numbers
• Over 1,000 speakers and thought leaders
• Over 40% keynotes speakers from adjacent industries, with more than 40% female keynote speakers
• Over half of attendees at director level and above, of which 21% were C-suite and 26% female attendees
• The GSMA Ministerial Programme convened with the highest number of delegations ever, with 196 delegations from over 150 countries, nearly 70 ministers and over 100 heads of regulatory authorities.
• Reporting on the event in-person, more than 2,400 journalists and industry analysts from around the world
• On average,10,000 networking meetings set up daily through the app
• Around a million unique viewers of the keynote sessions on MWC Barcelona, Mobile World Live and partner platforms

About GSMA
The GSMA is a global organisation unifying the mobile ecosystem to discover, develop and deliver innovation foundational to positive business environments and societal change. Our vision is to unlock the full power of connectivity so that people, industry, and society thrive. Representing mobile operators and organisations across the mobile ecosystem and adjacent industries, the GSMA delivers for its members across three broad pillars: Connectivity for Good, Industry Services and Solutions, and Outreach. This activity includes advancing policy, tackling today's biggest societal challenges, underpinning the technology and interoperability that make mobile work, and providing the world's largest platform to convene the mobile ecosystem at the MWC and M360 series of events.

Financial wellness platform Payflow has been crowned winner of the annual 4YFN Awards ceremony, which took place at the Banco Sabadell stage at MWC Barcelona 2023. The 4YFN Awards is a global startup competition aimed at finding the best digital startups around the globe. It is the highest official recognition offered exclusively to startups during MWC Barcelona 2023.

4YFN (Four Years From Now), is a startup and innovation platform, in the heart of MWC Barcelona. Now in its ninth edition, 4YFN's theme at MWC Barcelona 2023 is Humanising Technology.

There are over 700 international startups and exhibitors on the show floor with country delegations from Ukraine, Austria, South Africa, South Korea, Switzerland, France, Japan, Chile and the USA. With around 45 billion euros in funds represented by investors attending the event, it is an exceptional opportunity to connect startups, investors and companies to launch new business ventures together. Programmes at 4YFN will drive discussion around innovation in high-growth areas including Digital Health, EdTech, Frontier Tech, Tech & Planet and FinTech.

Payflow won the award after pitching their project on-stage to a panel of top investors. Payflow faced tough competition from the four other finalists – Aircision B.V. (Netherlands), DeafTawk (Denmark), Microverse (United States) and Unmanned Life (United Kingdom) – selected by a panel of industry experts and investors, using criteria such as innovation, scalability and impact.

"4YFN is the place where the world's most innovative digital startups connect with investors to launch exciting new business ventures together," said Pere Duran, Event Series Director at 4YFN. "The 4YFN Awards recognise the best of the best – congratulations to Payflow and thank you to everybody that took part. We're continuously inspired by the calibre of attendees at 4YFN, and their visions to advance human progress, revolutionise lifestyles and transform entire industries."

Recognising startups at the forefront of technology 4YFN has also published its Top 50 Startups list for the first time this year, highlighting the best startups, selected by a panel of judges representing leaders from the investor and entrepreneurial communities.

"Barcelona, Science Destination"

A programme to diversify tourist appeal

Part of the Barcelona Science Plan, this programme developed by Barcelona Turisme includes seven routes and 46 spaces around the city and aims to boost the Catalan capital's appeal at a national and international level in terms of science and dissemination. The programme also offers a themed agenda listing all events and a card with discounts at 27 centres.

A study by Barcelona Turisme shows that 41.8% of potential visitors to the city have an interest in scientific dissemination. Taking this into account, and with the idea of adding more options in this area, the "Barcelona, Science Destination" programme has been created.

The programme will offer visits to 46 spaces linked to science, technology, innovation and research, such as the Barcelona Supercomputing Center, the Cosmocaixa, the Observatori Fabra, the Royal Academy for Sciences and Arts, the Royal Academy for Medicine, the Barcelona Biomedical Research Park, the Umbracle and the Tres Pins Municipal Plant Nursery.

The programme also includes seven themed routes, where the 22@ district and Poblenou play a special role thanks to their industrial past and the technological reconversion they have undergone, a process which has put them at the forefront in terms of architecture and energy sustainability. There are also routes to discover the first power station in the Spanish state, which meant a major change in life in the city, and others to discover the input of women scientists in constructing the narrative of the city. Einstein and his visit to the city on 22 February 1923 will also be the focus of a route, tracing the steps of the German physicist and Nobel laureate around the streets of Barcelona.

The programme has been designed to attract science professionals, as well as the general public, with six visitor profiles established in all: families, science visitors, students, the ecologically aware, the cultural visitor and the general public.

The programme will include a Science Card offering discount at 27 spaces or science centres such as the Supercomputing Center, the Royal Academy of Medicine and the Natural Science Museum.

There will also be a themed agenda, updated daily, with all the science and tech events and ceremonies being held in the city. This will be available on the website Visit Barcelona.

Barcelona and science
According to Nature magazine, Barcelona is the fourth European city in terms of scientific production and the region in southern Europe with the most start-ups. It also has 12 universities and 36 recognised university research institutions on an international scale, with 20% of students coming from abroad. There are 21 centres operated by the Spanish National Research Council (CSIC), 8 hospital institutions which carry out research, 16 science parks and 13 large infrastructures to support research (GISR). Besides this, the city is the mobile capital and also stands out in terms of fairs and congresses (with the medical sector very well represented).

The programme is the result of work by Barcelona Turisme and the City Council, through Barcelona Activa and the Area for Economic Promotion, in collaboration with the city's science network and several organisations.

But Barcelona also has a lot to offer to „normal" tourists: Barcelona is the capital of the Catalonia region in Spain and one of the most popular tourist cities in Europe. The city is famous for its architecture, art, culture and delicious Catalan cuisine. Here are some of the top attractions and activities you can experience during your visit to Barcelona:

La Sagrada Familia:
This is one of Barcelona's most famous landmarks and an unfinished masterpiece by architect Antoni Gaudí. A tour of the basilica is a must for any visitor.

Picasso Museum:
The museum houses one of the largest collections of works by the famous painter Pablo Picasso.

Park Güell:
This park was also designed by Gaudí and offers spectacular views of the city as well as unique architecture and mosaics.

La Rambla:

This busy street is a popular place to stroll and shop. There are many street performers and markets along La Rambla.

Barceloneta Beach:
A visit to Barcelona beach is a must. You can sunbathe, swim and do water sports here.

Casa Milà:
One of the last Gaudí projects known as „La Pedrera" is located in the Eixample district and is another highlight for architecture lovers.

Barcelona has a lot to offer and is a great choice for a city break. Allow enough time to see everything and, of course, to enjoy!
More information