

# The Wild Jewels

Data  
Should  
Be Precious

## COLLABORATION WITH ETH ZÜRICH AND FHNW



The Value Lab Asia, a space for collaborative data visualization and analysis, located at the Future Cities Laboratory in Singapore.

The Wild Jewels explore the possibilities of data-driven wearable technology that responds to future environmental scenarios. The pieces make use of data provided by millions of sensors and mobile phones that permanently collect data of the momentary state of a city; and in addition expand the scale to include solar activity data collected from observatories and probes in space.

The collection is inspired by large data analysis and collaboration facilities such as the Value Lab Asia, and it demonstrates typical modes of interaction with data: visualizing, filtering, projecting and connecting in a different context. Thereby, the pieces freely re-interpret and embody these modes, and bring them to a small, personal scale. The functional aspect is combined with precious materials and traditional jewelry and accessory designs, ultimately to be worn as pretty artworks.

### RAUMWETTER (SPACE WEATHER ORB)

Raumwetter is a necklace that visualizes the beauty of space weather: The sun permanently releases streams of hot gas into space – the solar wind. A solar flare may blast millions of tons of matter into space, turning the wind into a storm reaching speeds of up to 2 million miles per hour. Luckily, on earth we are protected. Earth's magnetic field redirects most charged solar particles to flow around the planet. However, space based technology (GPS), communication systems and power grids may be at risk. Thus, Raumwetter also has the capability to warn you of intense solar events.

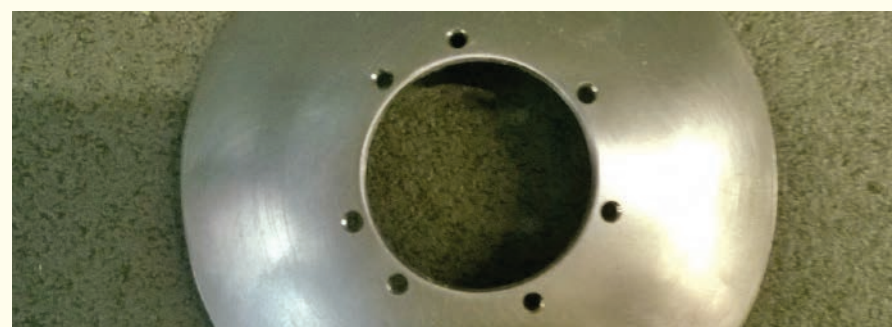
### GIFTSCHLEUSE (POISON GATE CUFF)

On Earth, 780 million people do not have access to clean water, and in the near future, availability of water is expected to decrease in many regions. Giftschleuse is a water filtering bangle that can be worn at all times. It provides instant, clean water. Similarly to an exo-skeleton, it is an exo-organ that provides additional functions to the human body in situations where our own organism cannot deal with conditions such as polluted water. In addition, it maps areas of clean water and shares the data with other water-seekers nearby.



### DURCHBLICK (CLEAR VISION GOGGLES)

Besides correcting your seeing capabilities and protecting your eyes from strong light, Durchblick is a multifunctional display device that allows you to project the invisible into your visual perception: Depending on its configuration, it provides hints about wireless communication networks, radiation, dust and more. These are the shades for a hotter planet!



### ÜBERGESUND (SUPER HEALTH GLOVE)

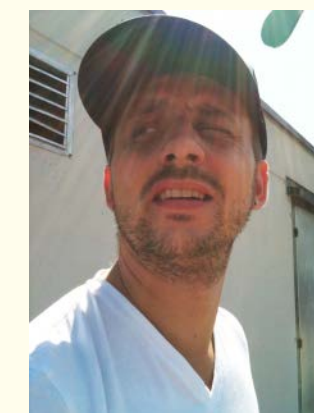
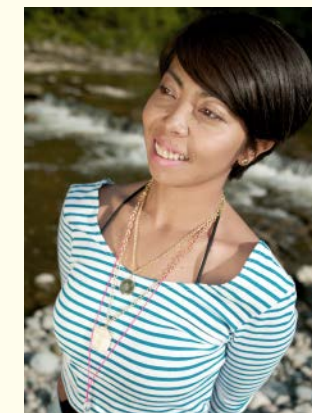
Übergesund is decorated glove and a social health device that builds spontaneous data networks with other wearers. It will inform you if somebody near you needs help, and it forwards such alerts to others around who might be able to help. In densely populated areas, such as in cities, Übergesund provides a decentralized health-network that allows for community-sourced services that are available at a high response time.

### THE FUTURE CITIES LABORATORY (FCL)

ETH Zürich's Future Cities Laboratory (FCL) in Singapore is a transdisciplinary research programme focused on sustainable urbanisation in a global perspective, laying the foundation for a new form of urban studies programme. Research is carried out on a broad range of topics such as urban design, building technology, transportation, or simulation.

### THE INSTITUTE OF 4D TECHNOLOGIES (I4DS)

The Institute of 4D Technologies at FHNW Switzerland works on management, processing, and visualization of large data collections. The institute roots in computer science, but it has a strong multidisciplinary orientation with application domains such as astroinformatics, design & technology, computer games or geoinformatics.



### BIOGRAPHIES

Dr Simon Schubiger has been developing various interactive media art installations (e.g. for the Ars Electronica Center) and has performed live visuals at more than one hundred electronic music events over the past decades as a member of the Scheinwerfer collective. He is also the co-developer of the Soundium2 multimedia platform and ETH Zürich's NOVA voxel display. In parallel, Simon Schubiger is a professor for computer graphics and game design at FHNW Switzerland.

Ika Arisona is an Indonesian-Swiss jewellery maker who brings together Asian and European culture and heritage together through her art. She founded her own label AJA in 2012 and all her pieces have an individual character and are handcrafted with lots of love to carry the spirit of her life journey.

Dr Stefan Müller Arisona is a computer scientist and artist who seeks to combine principles from computer graphics, digital media, and human-computer interaction and apply them to a variety of fields such as architectural and urban modeling, digital art, and entertainment. He is a professor of computer science at FHNW Switzerland, and a senior research fellow at ETH Zürich. As an artist, DJ, and VJ, he has performed and exhibited worldwide at renowned venues such as London's Notting Hill Arts Club, the Ars Electronica Center in Linz, and Singapore's Zouk.