SUSTAINABILITY REPORT

SUSTAINABLE TOOL-WATCHES

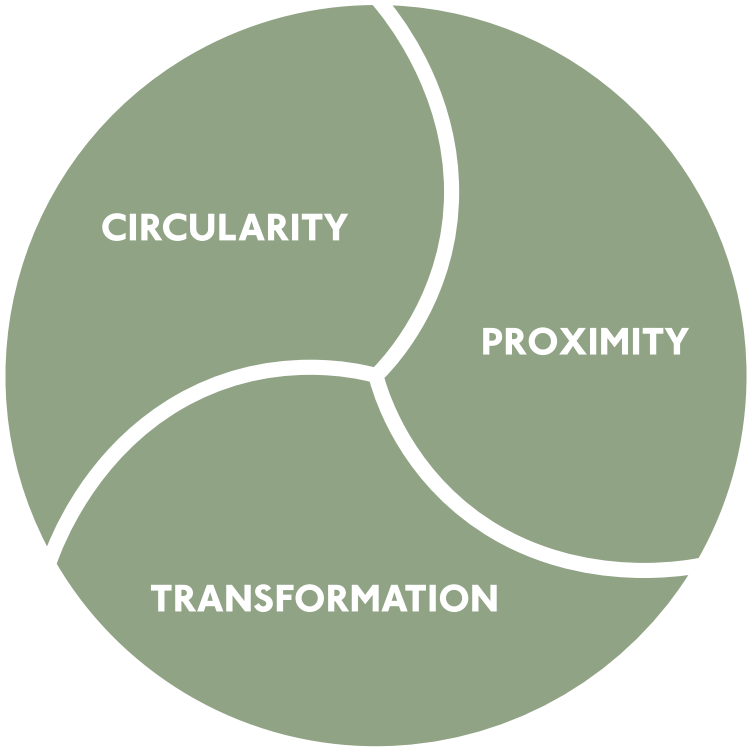
crowdmanufactured by

WATCH ANGELS

SUSTAINABLE WATCHES

PRINCIPLES

When we first approached the project, we thought that we just had to use recycled materials to succeed. Soon we've realized that a true sustainable project is much more than that. It is about finding what is needed from an existing "circle", transform it into a new "circle" and, finally, made it ready for its future "circle". In fact, to process in a cycle.



Worst case estimate based on project status Nov. 2020.

CIRCULARITY

We privileged materials which are recycled and/or recyclable.

The goal was to source materials from an exisintg «circle» and have them ready to join a new «circle» at the end of their lives.

Each material used in the project has been assigned with a "circle score", which takes into account the recycled/repurposed (old circle) as well as the recyclability (future circle)

Material	Recycled/repurposed	Recyclable	Circle score
Stainless steel*	100%	100%	100%
Sapphire	0%	0%	0%
Leather**	100%	100%	100%
Rubber	0%	0%	0%
Brass	0%	100%	50%
PA6	100%	100%	100%
Movements	100%	50%	75%
Wood***	100%	100%	100%

* 100% recycled and certified stainles steel
** Italian vegetal tanned leather, www.pellealvegetale.it. Handcrafted by Marco Lazzaroni, Mendrisio. www.vicuspelle.ch
*** FSC100, www.fsc.org

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PROXIMITY

Produce as much as we could inhouse and reducing the CO2 emissions was a clear choice. When this was not possible, we have selected vendors close to us and based in countries with a top ranking in the EPI 2020*.

Country of origin	Country EPI	Location**	Origin score
Switzerland	81.50%	1.00	81.50%
Germany	77.20%	0.75	57.90%
France	80.00%	0.75	60.00%
Italy	71.00%	0.75	53.25%
Spain	74.30%	0.50	37.15%

*Environmental Performance Index 2020, source Wendling, Z.A., Emerson, J.W., de Sherbinin, A., Esty, D.C., et al. (2020). (2020 Environmental Performance Index, New Haven, CT: Yale Center for Environmental Law & Policy. epi.yale.edu) https://epi.yale.edu/epi-results/2020/component/epi
**EPI is factored with the distance from our factory (CH=1, within 250Km=0.75, within 500Km=0.5, more than1000Km=0.25)

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TRANSFORMATION

We privilege transformation methods which avoid the use of chemicals and energy different than electricity. The electricity used in the factory is 100% produced from renewable sources and it's certified by naturemade *, leading Swiss quality label.

OPERATION	NOT USE OF CHEMICAL	USE OF GREEN ELECTRICITY	TRANSFORMATION SCORE
Lathing, milling, grinding, laser, polishing	100%	100%	100%
Stitching, cutting	100%	100%	100%
Injection	100%	100%	100%
Sawing, planing, sanding	100%	100%	100%
Painting, galvanic (SL, ink)	0%	0%	0%
Additive growing	0%	0%	0%

*https://www.naturemade.ch/en/startseite.html

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THE RESULT

Each part composing the watch has been finally judged considering these 3 factors.

A total score has been calculated considering the weight of the components related to the total weight of the watch. A typical mid range watch produced today would have a score of just 42%, a CB Watch could reach at 87%.

42%

Mid-range watch

87%

CB Watch

Worst case estimate based on project status Nov. 2020.

DETAILS

COMPONENT	SUBCOMPONENT	MATERIAL	TRANSFORMATION / ORIGIN	WEIGHT %	MATERIAL SCORE	TRANSFORM. SCORE	ORIGIN SCORE	TOTAL SCORE	TOTAL WEIGHTED SCORE	TOTAL MAX WEIGHTED SCORE	ACHIEVEMENT
CASE	Case body	Stainless steel	A / Switzerland	11.60%	1	1	0.815	2.815	0.326	0.326	100%
CASE	Bezel	Stainless steel	A / Switzerland	4.38%	1	1	0.815	2.815	0.123	0.123	100%
CASE	Bezel ring	Stainless steel	A / Switzerland	2.63%	1	1	0.815	2.815	0.074	0.074	100%
CASE	Bezel stopper	Stainless steel	A / Switzerland	1.75%	1	1	0.815	2.815	0.049	0.049	100%
CASE	Back plate	Stainless steel	A / Switzerland	6.56%	1	1	0.815	2.815	0.185	0.185	100%
CASE	Back ring	Stainless steel	A / Switzerland	5.47%	1	1	0.815	2.815	0.154	0.154	100%
CASE	Orings	Rubber	D / France	0.44%	0	1	0.600	1.600	0.007	0.012	57%
CASE	Gaskets	PA6	D / Spain	0.88%	1	1	0.372	2.372	0.021	0.025	84%
CASE	Crystal	Sapphire	E / France	8.32%	0	0	0.600	0.600	0.050	0.234	21%
CASE	Crown tube	Stainless steel	A / Switzerland	2.19%	1	1	0.815	2.815	0.062	0.062	100%
CASE	Crown	Stainless steel	A / Switzerland	2.19%	1	1	0.815	2.815	0.062	0.062	100%
CASE	Screws	Stainless steel	A / Switzerland	1.31%	1	1	0.815	2.815	0.037	0.037	100%
DIAL	Top dial	Stainless steel	A / Switzerland	1.75%	1	1	0.815	2.815	0.049	0.049	100%
DIAL	Sub dial	Stainless steel	B / Switzerland	1.75%	1	0	0.815	1.815	0.032	0.049	64%
DIAL	Screws	Stainless steel	A / Switzerland	1.31%	1	1	0.815	2.815	0.037	0.037	100%
HANDS	Hands	Brass	A / Switzerland	1.09%	0.5	1	0.815	2.315	0.025	0.031	82%
STRAP	Leather	Leather	C / Switzerland	10.28%	1	1	0.815	2.815	0.290	0.290	100%
STRAP	Buckle	Stainless steel	A / Switzerland	5.47%	1	1	0.815	2.815	0.154	0.154	100%
MOVEMENT	n/a	Various	B / Switzerland	10.94%	0.75	0	0.815	1.565	0.171	0.308	56%
BOX	n/a	Wood	F / Switzerland	19.69%	1	1	0.815	2.815	0.554	0.554	100%
TOTAL									2.462	2.815	
									87%		

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2020
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