Brand Guidelines

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1.1 Main shape 1.2 Zone of protection 1.3 Minimum size 1.4 Variants, block & icons 1.5 Don't use 1.6 Secondary logos

Logotype the story

A t beginning, there was nothing. Nothing visually perceptible in any case. The history of the graphic identity of «Quantum Technologies» started in November 2017 at the Max Plank Institute. During a 3-day workshop, Quantum Technologies team and Dogstudio worked hard to define an identity fundamental to Quatum technologies, but also (and especially) defining «what form should it take to talk to which audience, and in what way?

A host of ideas began to take shape, an identity came to life ...

This document presents the graphic identity of Quatum Technologies in all its diversity, outlining the rules to respect and ensure a long and beautiful life.



Minimal shape for a complex subject Curiosity and mysterious spririt Innovaties with touch of human Playful, emotion ans lights Precise but not elitist Illustrations with a big idea Univers colored and pink touch Living logo and dynamic identities Particules, waves connections,

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1.1 Main Shape

The main form of the «Quantum Technologies» logo was born from the shapes of the letter «Q», a particle and an atom.

The body of the «Q» is the central element around which a particle is articulated smaller .. At the same time. huge and tiny, small and big, extended and compact, in perpetual evolution, ... This form inspires the movement of the atypical and non-static representation of the atom. But it's not only that...

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1.3

Minimum size

To maintain the visibility and integrity of the logo, a minimum size exists, regardless of how it is used. This is the zone of protection.

Zone of protection

The exclusion zone is a specific amount of empty space to be maintained around the logo in order to maintain its visibility and integrity regardless of how it is used.

Logo usages

The size of the round of the little «Q» = The size of margin protection around the logo.

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Minimum Size with baseline

Minimum Size without baseline



1.2



Under **25 mm** the logo must be used without his baseline, and under 15 mm the logo cannot be used.



Variants, block background and icons

The main and negative version are not always enough to ensure an optimal reading of the logo. To allow a beautiful setting in large visuals (photographic or illustrative) without reducing its legibility, the logo also exists on 3 different colour blocks or without block background. If possible the logo on color or negative version can also be used without the backgound.

The icon on its own could also to be used.



The black and white version can be used for some technical of reproduction without colors (signage, drystamp, stamp,...)





Change typography



Add an effect

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To conserve a strong and coherent identity for Quantum Flagship,



Distortion



Rotate the logo



Change opacity



Change proportions

Secondary logos

As the main logos, each variants of domains exist with differents colors of background, in positive, in negative, in monochrome,...

Each domain also exists with the main icon











Domains logos

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or each domain of Quantum F Flagship, we created a specific icon which represents each activity sector. The main shape is the same as the principal logo but there is a different pattern inside this main shape. There are Five domains : Computing, Simulation, Sensing and metrology, Communication and Basic Science.

Each secondary logo works with the same rules of usage of the main logo : zone of protection, minimum size, variants, block background and icons, don't use, colors,...

















OUANTUM Simulation















2.1 Main Colors 2.2 Secondary Colors

Colors · Palette

« YES! quantum physics can be fun, attractive and accessible to everyone, including women and young people! »

Main colors

2.1

2.2

«Main colors» include the colors of the «playful color» logo as well as a darker tones, used mainly for texts.

Dark Blue brings contrast, strength and seriousness about the visual identity.

The pink / orange gradient is the essence of Quantum Flagship's identity: playful, vibrant, warm ... It is the textured and original side of the Quantum Flagship. Compared to what is currently done in the sector, the Quatum Flagship is groundbreaking, and proud of it



Secondary colors

Secondary colors should be used subtly, by little touches. The pop color can be used to highlight smaller elements On the other hand, the peaceful color brings neutral tones and allows you to place a message in the background.



Orange

Cmjn 0, 63, 97, 0 Rvb 255, 126, 3 Href #ff7e03 Pantone 1595

Dark Blue

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Cmyk 100, 95, 5, 39 Rgb 8, 10, 69 Href #070a44 Pantone 2758 **Pink** Cmjn 0, 100, 24, 4 Rvb 255, 3, 122 Href #z Pantone 214

Neutral White

Cmyk 0, 0, 0, 0 Rgb 255, 255, 255 Href #ffffff Pantone -

Light gray (Blue 10%)

Cmyk 12, 8, 5, 2 Rgb 230, 231, 236 Href #e6e7ec Pantone -

Middle gray (Blue 60%)

Cmyk 64, 58, 26, 4 Rgb 107, 109, 142 Href #6b6d8e Pantone -

Pastel turquoise

Cmyk 40, 0, 21, 0 Rgb 0, 255, 189 Href #00ffbd Pantone 337



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3.1 Imperial URW 3.2 Montserrat 3.3 Reenie Beanie



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Main typography



Imperial URW Medium > Bold

Abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 01234567890@&é'''(§è!çà)



Montserrat

Thin > Black ABCDEFGHIJKLMNOPQRSTU-

Reenie Beanie Thin > Black / Abcdefghijklmnopgrstuvwxyz

01234567890@¿é"(§è!çà)

he Imperial URW font, main font for the title , is a premium font. If you don't have the licence to use or if you want use this font on a newsletter or e-mail signature, you can replace the Imperial URW by Times New Roman and Monserrat (free font but not compatible in the newsletter and e-mail signature) will replace by Verdana. - (exemple page 00)



Imperial URW

This font is essentianaly used for the big titles, the subtitles or the quotations. It's a beautiful mix between a sans serif and a serif font. This font give a lot of characthe to the identity. Imperial est également utilisée pour la première lettre du premier paragraphe d'un texte (letterine)



Montserrat

Monterrat will mainly be used for long texts and paragraphs. It gives the identity good readability both on printed media and digital reading. Also used in subtitles with a strong intertitling and in capital letters



Reenie Beanie

This script typography brings the human touch to the Graphic Identity of Quantum Technologies. It is used for margin notes, pages, quotes, numbering, ... She serves mainly to summarize the ideas of a long text.



Don't use for the paragraph with a lot of text

Don't use for - the big titles - in capitalize without interlettering

Don't use for - big titles - in capitalize



4.1 Photo filtre4.2 Illustrations4.3 Icons



(4.1) Photo filter

The Dark Blue is used with a «superposition effect» to give all images the same look.

When the quality color of the photography is too bad, the background too light, or if it's a black and white photography, it's better to use the dark blue monochromatic.



Without photofilter

With photofilter



















4.2

Illustration photography



Dark Palette Bright palette







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4.3

lcons

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Stationery

5.1 Mail signature 5.2 Stamp 5.3 Pencils 5.3 Felicits 5.4 T-shirt 5.5 Wristband 5.6 Book 5.7 Slide of business card 5.8 Totebag 5.9 Templates

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5.1

Mail Signature

In an e-mail, we cannot to use the main typography. Two font of substitution are used to replace the main fonts : Imperial and Montserrat.

Times Roman Semibold is used for the First name, the second name and the url. Verdana is used for the little texte of informations.



Max Riedel

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Slide of business card

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5.8 Totebag

<image>

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Templates

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28 JUNE 2017

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Quantum Flagship

High-Level Steering Commiatte





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Executive · [•] summary

The first quantum revolution - un-derstanding and applying the physical laws of the microscopic realm - resulted in ground-breaking technologies such as the transistor and the laser. Now, our growing ability to manipulate quantum effects in customised systems and materials is paving the way for a second quantum revolution.

In April 2016, the European Commission announced the Quantum Technology (QT) Flagship, which will be managed as part of the FET program and is expected to be a large-scale iFnitiative similar in size, timescale and ambition to the two ongoing FET Flagships.

> Longer than the flagship's expected duration of ten years

> > •

The QT Flagship initiative is very important and urgent to place and keep Europe at the forefront of the second quantum revolution now unfolding worldwide, bringing transformative advances to science, economy and society. It will create new commercial opportunities addressing global challenges, provide strategic capabilities for security and seed yet unimagined applications for the future. In the past, Europe has missed the opportunity to capita-



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borned.

14 april 2016

The Quantum

Flagship was

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lize on major technology trends (e.g. digital platforms); this could well happen again if Europe does not take decisive action now. Developing Europe's capabilities in QT will help to create lucrative knowledge-based start-ups, foster further growth of SMEs and industry and thus lead to long-term economic, scientific and societal benefits.

The long-term horizon is a "Quantum Web": quantum computers, simulators and sensors interconnected via quantum networks distributing information and quantum resources such as coherence and entanglement. On the corresponding time scale - which is in fact longer than the flagship's expected duration of ten years - the performance enhancements resulting from quantum technologies will yield unprecedented computing power, guarantee data privacy and communication security, and provide ultra-high precision synchronization, measurements and diagnostics for a range of applications available to everyone locally and in the cloud.

FINAL REPORT 2017

To prepare the QT Flagship, the European Commission appointed an independent High-Level Steering Committee (HLSC) consisting of 12 distinguished Academic Members and 12 high-ranking Industry Members (from both large multi-nationals and SMEs), as well as one observer. The main tasks of the HLSC are to deliver (1) a Strategic Research Agenda, (2) an Implementation model and (3) a Governance model. This Final Report addresses these by containing (1) as already published in the Intermediate Report, as well as detailing recommendations for point (2) and (3), enhanced by discussions with the European Commission and Member States.

The Strategic Research Agenda (SRA) proposed in this document sets the ambitious but achievable goals for the Flagship's ten-year lifetime, and details them for the initial three-year ramp-up phase. To work towards these goals, the QT Flagship should be structured around four mission-driven research and innovation domains, representing the major applied areas in the field: Communication, Computation, Simulation, as well as Sensing and Metrology. These application domains should be built on a common basis of Basic Science, with top research institutions and companies spread across Europe assisting their objectives by delivering novel ideas, tools, methods and processes. The enabling aspects addressed in each domain belong to one of these three categories: Engineering and Control, Software and Theory, Education and Training.

K M K M

4 missions Computation Simulation Sensing and Metrology Communication



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ommaso Calarco

FINAL REPORT 2017

The mission of Quantum Technologies



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Title level #1 lorem ipsum

t quantum revolution -anding and applying the laws of the microscopic sulted in ground-breaking April 2016 the Euro

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FINAL REPORT 2017



 \bigcirc 14 april 2016 The Quantum Flagship was borned.

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4 missions : Computation Simulation Sensing and Metrology Communicatio



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The mission of Quantum Technologies

25 JANUARY 2018

Tommaso Calarco Ouantum Coordination and Support Action



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Quantum Computers are fundamentally different and will have big impact on high performance computing

NOVEL ARCHITECTURES - QUANTUM COMPUTING

Quantum computing (QC)

Fundamentally different computing architecture and hardware
 Fundamentally different algorithms and software development

Gate-based QC (IBM, Google, ...)

 Massively improved scaling
 QCs with 50+ qubits will beat
classical supercomputers for certain very sensitive to errors Currently only few qubits systems

Applications: Optimization Sampling

Quantum annealers (D-Wave)

Applications: • Simulation of quantum systems • Number factoring / cryptography Searching
 Optimization, graph analysis
 Machine learning, pattern matching
....?

461

 Speedup not mathematically proven, but experimentally shown
 Fourth generation systems available on market
 Current machine with 2000 qubits UCZ/3



Quantum computers

ENORMOUS COMPUTING POWER AVAILABLE



Traffic, logisitics, product lifecycle management, finance, pharma, artificial intelligence,...

Traffic, logisitics, product lifecycle management, finance, pharma, artificial intelligence,...

Technology : Exploit « quantum parallelism

Vision : Enormous computing power for optimization (traffic, production, energy grids...) and quantum machine learning

Status : specialized quantum computers will soon outperform classical computers in very specific tasks. High interest by global IT

corporations.

Chalenges : Error correction to scale up to « universal quantum computers

<u>05</u>







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