



**Winner 2018**

UK's  
Most Innovative  
Small Cyber  
Security Company

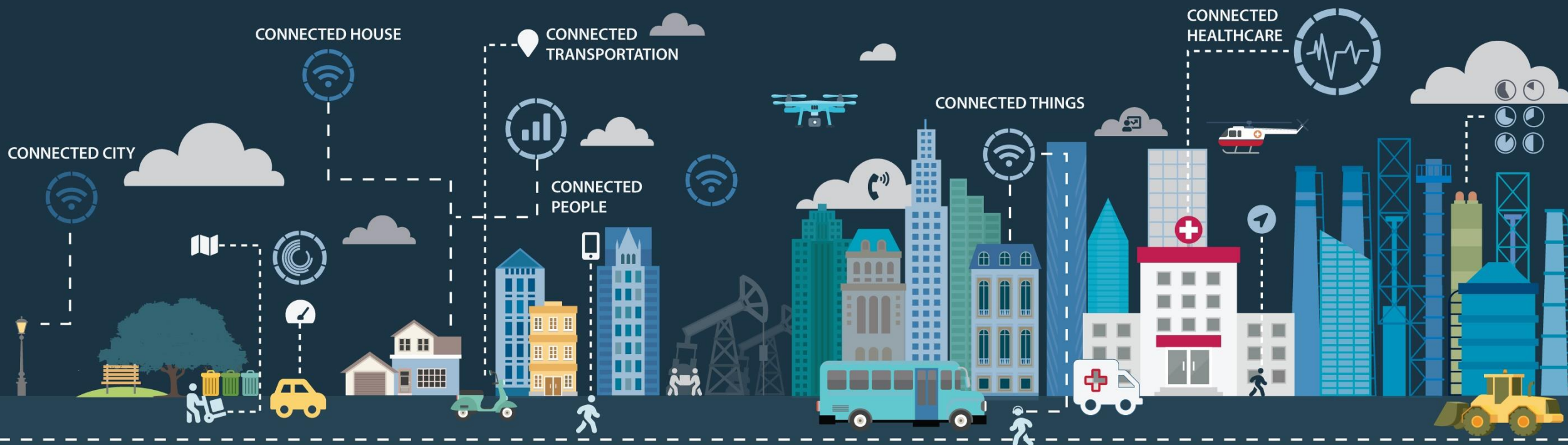
**Philip Sibson**

CTO & Co-Founder

[philip.sibson@kets-quantum.com](mailto:philip.sibson@kets-quantum.com)

# KETS

# QUANTUM SECURITY



**Quantum Computers will break our current, convenient digital security**



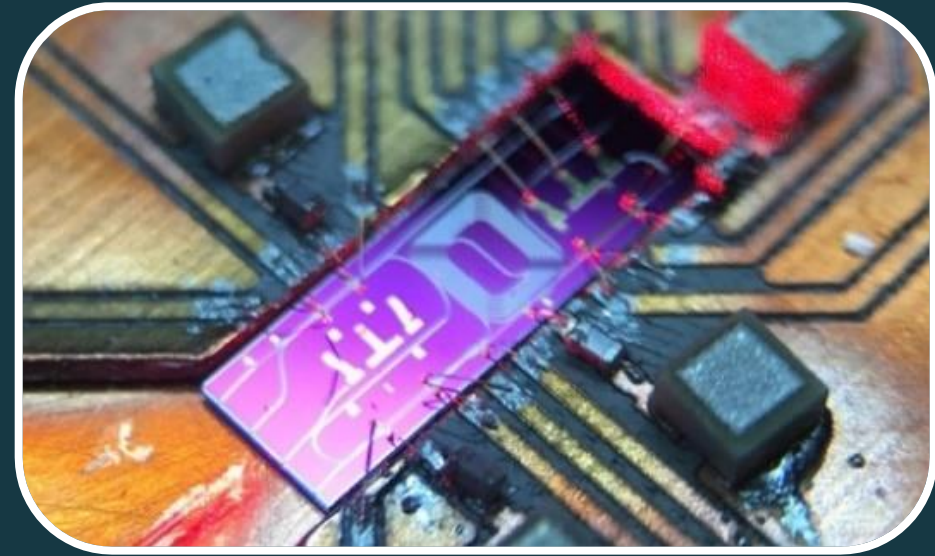
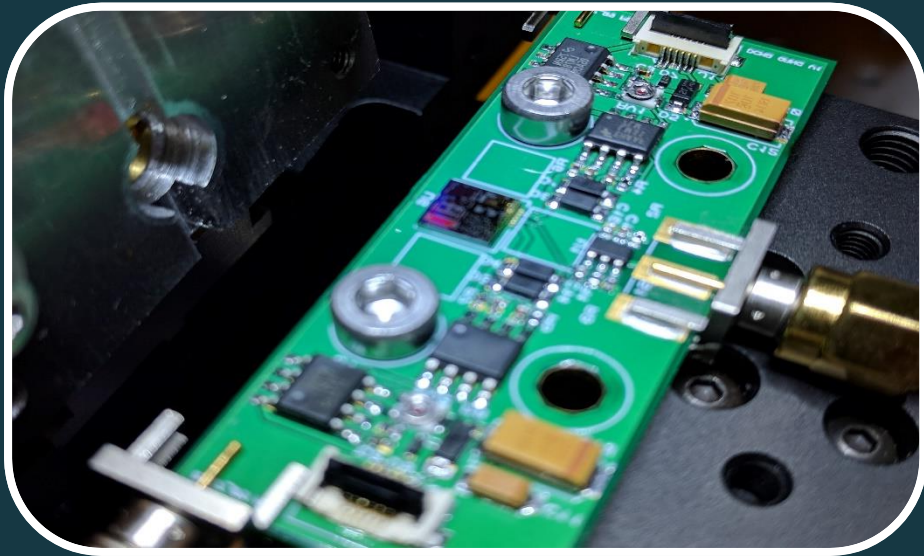
# FIRST PAIN POINTS

Telecommunications  
providers will feel the pain  
first



# KETS TECHNOLOGY

KETS is the first company with a complete quantum encryption solution on a chip.



Ultra  
secure



Hacker  
detection



Future  
proof



Low size,  
weight, power



High  
performance



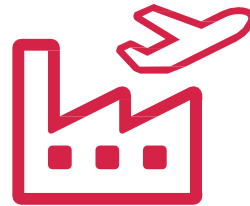
Scalable  
manufacture

# ADOPTION CASCADE



## BACKBONE, BESPOKE

Defence, Telecommunications



## CRITICAL INFRASTRUCTURE, REFIT/UPGRADE

Power stations, Airports,  
Industrial control systems



## CONSUMER, STANDARDISED PRODUCT

Finance, Data Centres, Medical

# TARGETING THE BACKBONE



Demonstrate next generation secure optical links for Defence & Govt

Innovate UK



Demonstrate next generation secure fibre backbone.



Demonstrate next generation hardware security





# SOLUTIONS COMPARISON - QKD



**RSA**  
SECURITY™

**CISCO**

**JUNIPER**  
NETWORKS

**Conventional software**

**ISARA**

Post-Quantum  
Post quantum



**|KETS> QKD**

Security →



**Conventional QKD**

Size ↓

# EARLY ENGAGEMENT



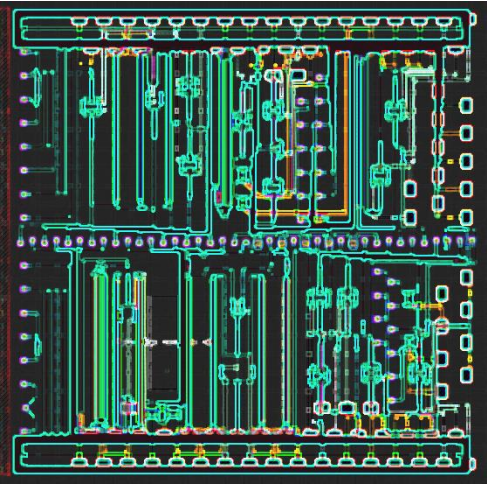
Development Kits



OEM Modules

Licencing

Licencing





# TEAM



## MANAGEMENT



**Chris Erven**  
**CEO**

13 years quantum encryption  
Proven “hero” project delivery



**Philip Sibson**  
**CTO**

1<sup>st</sup> chip-to-chip quantum  
encryption demo



**Jake Kennard**  
**Technical Sales  
Director**

>£1m industry projects



**Caroline Clark**  
**Director of Operations**

Extensive high tech  
operations expertise

## BOARD



**Steve Kitson**  
**Chairman**

Founded and exited  
Folium Optics



**Claudio Marinelli**  
**Non-Exec Director**

Multiple start-ups  
Judge Business School

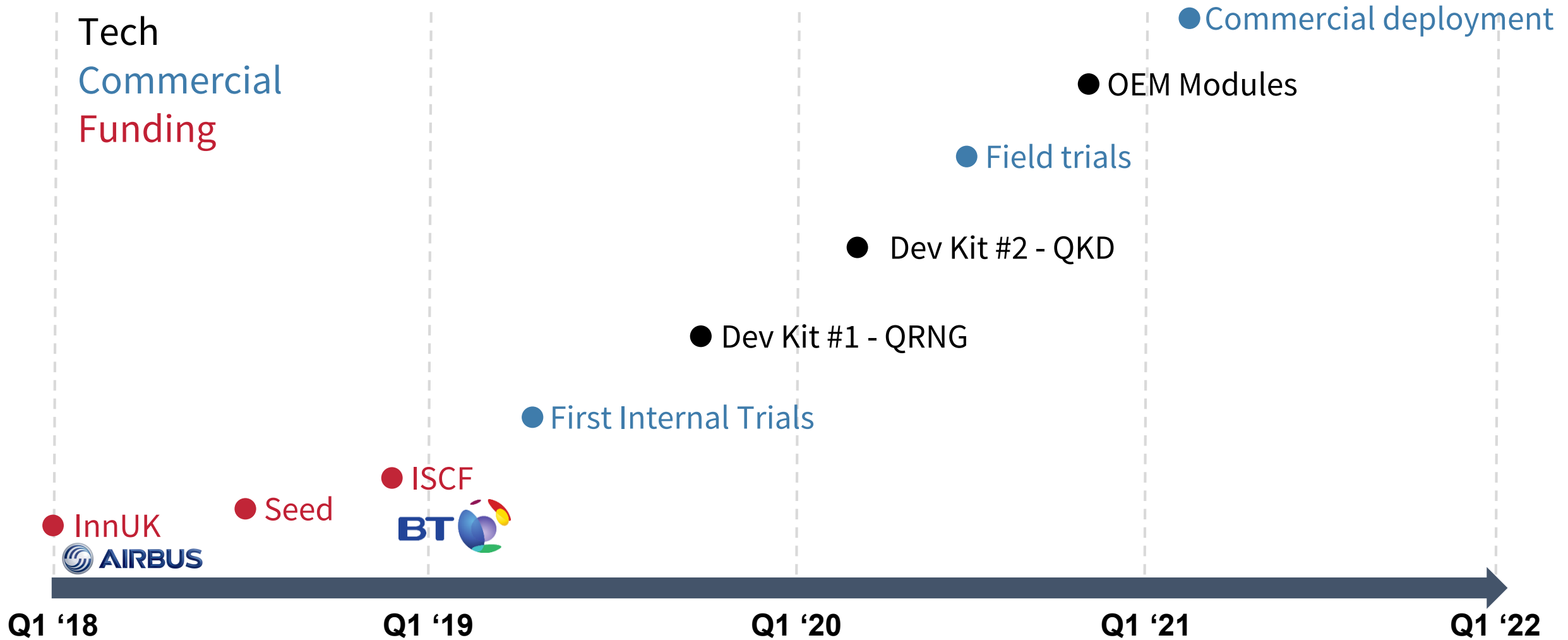


**Christophe Jurczak**  
**Non-Exec Director**

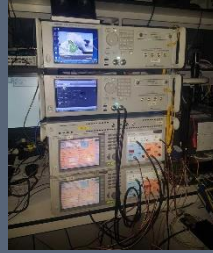
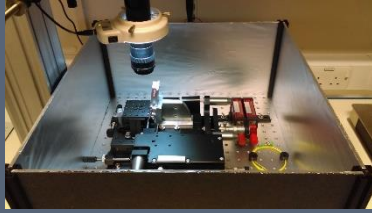
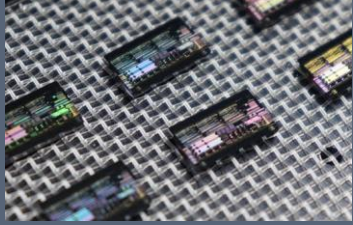
CEO Quantonation  
Exec in Energy & Defence



# MILESTONES

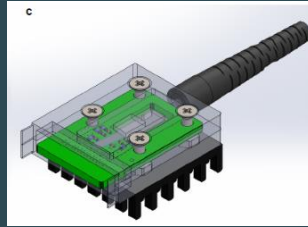


# TECHNOLOGY DEVELOPMENT

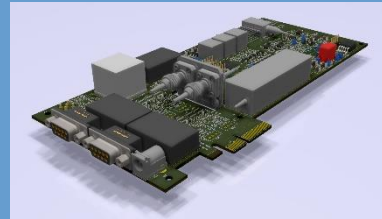
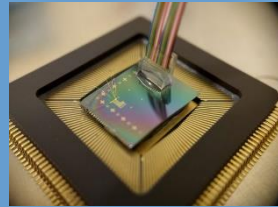


Make Do  
TRL4 – Laboratory Testing  
with T&M

Make Better  
TRL5 – Lab Testing with  
Bespoke sub-systems



Make Best  
TRL6 – Prototype System



PIC

PIC

P-DEVICE

EVAL-BOARD

P-DEVICE

ELEC-HW

SDK

EVAL-BOARD

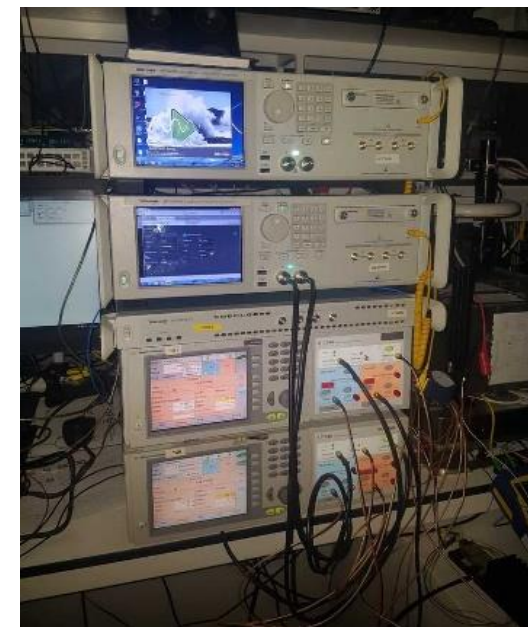
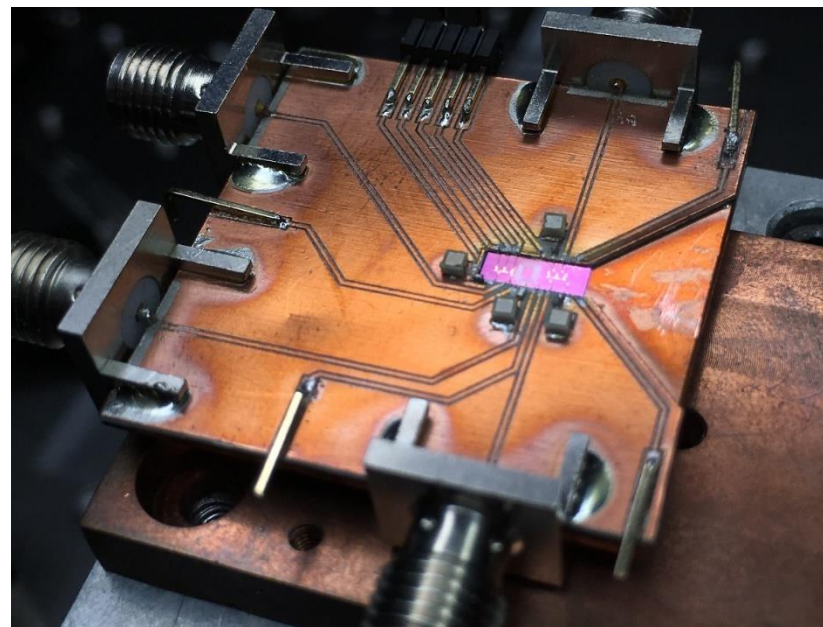
SDK

COMP-HW

STANDALONE

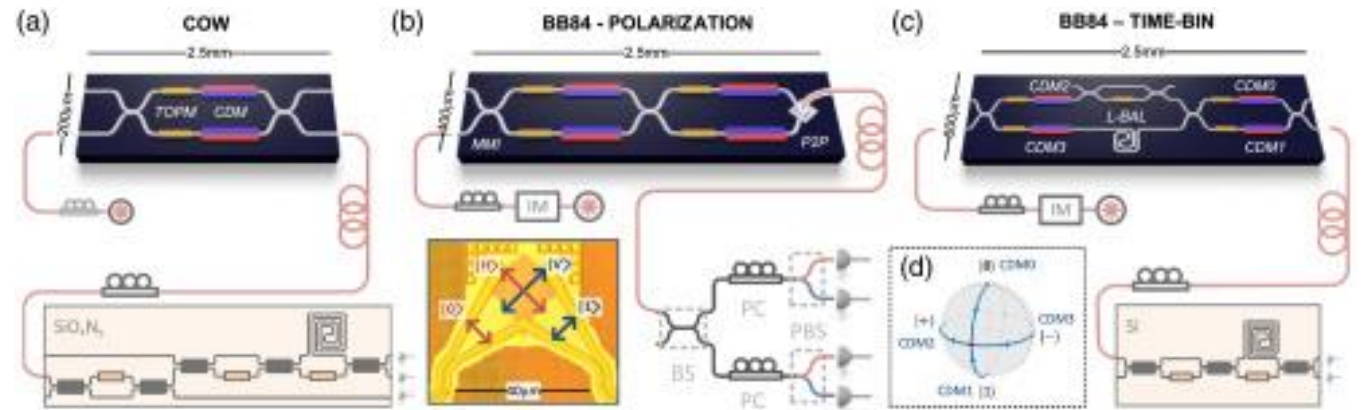
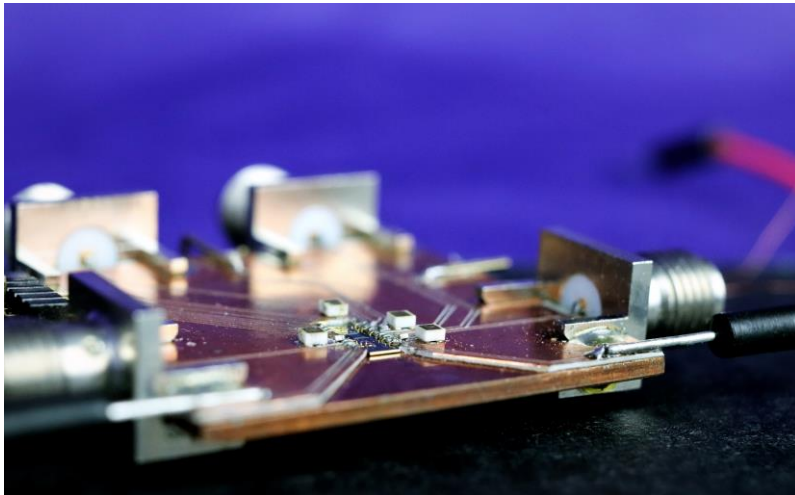
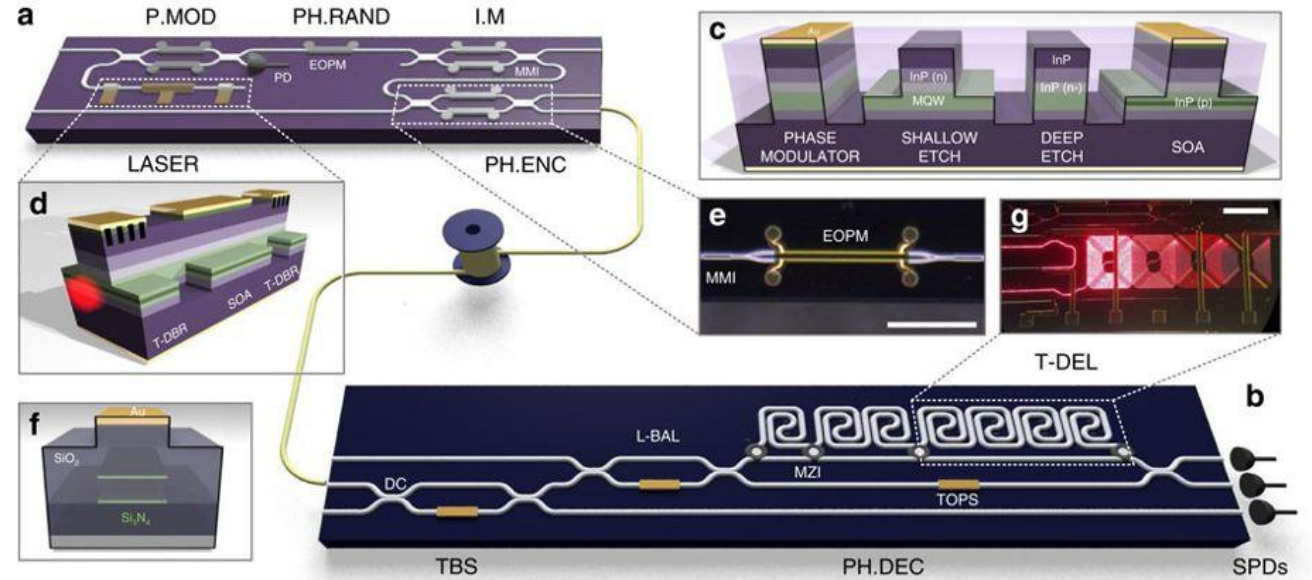
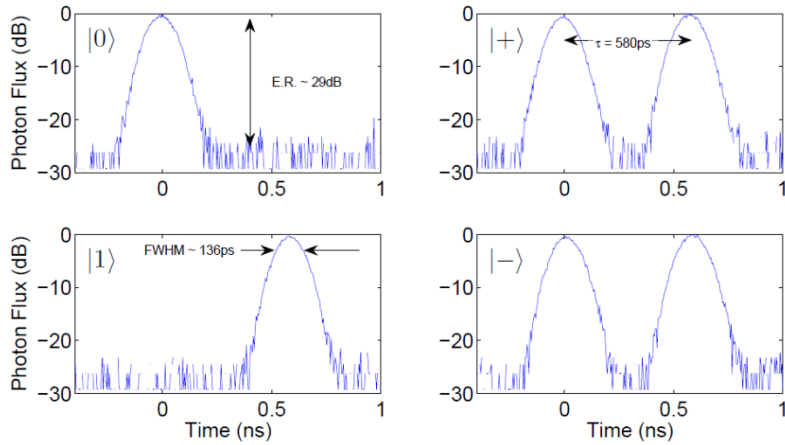


# MAKE DO: LAB



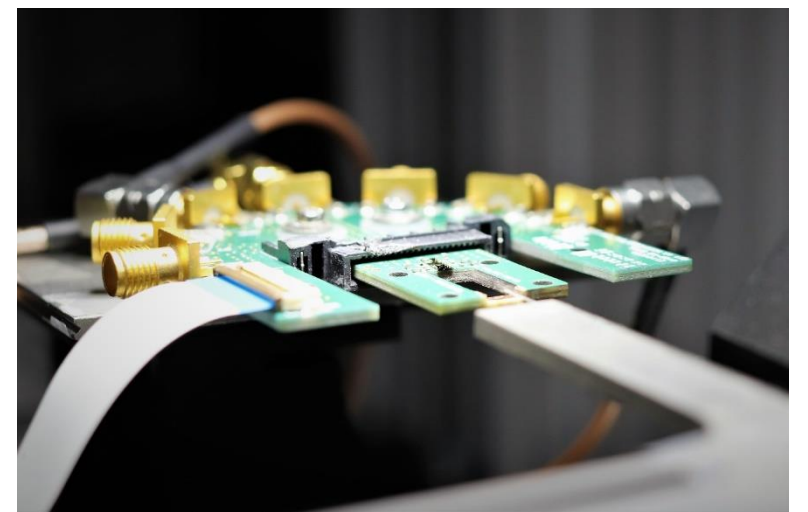
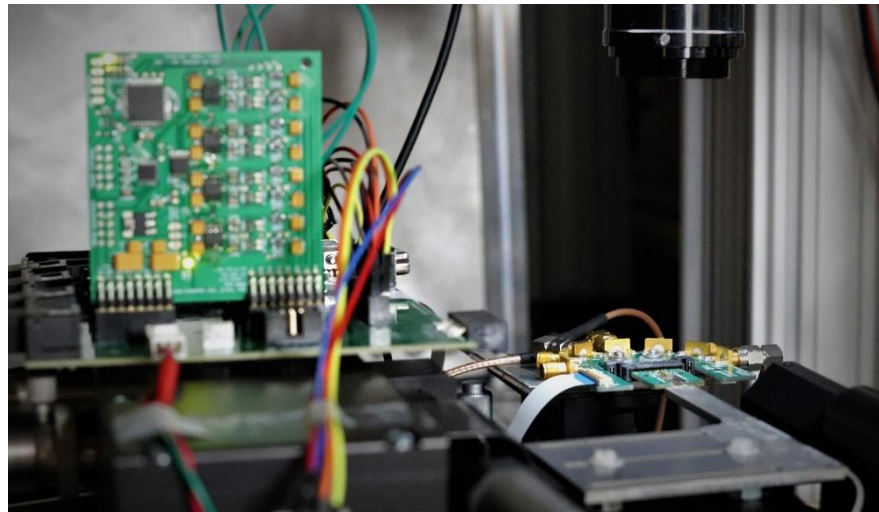
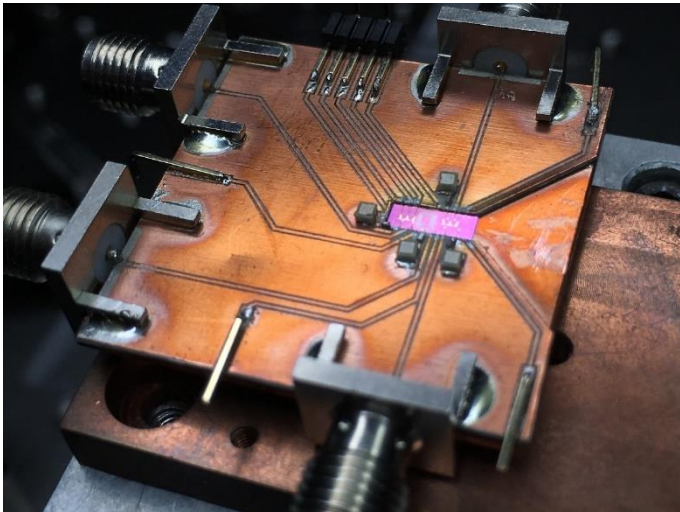
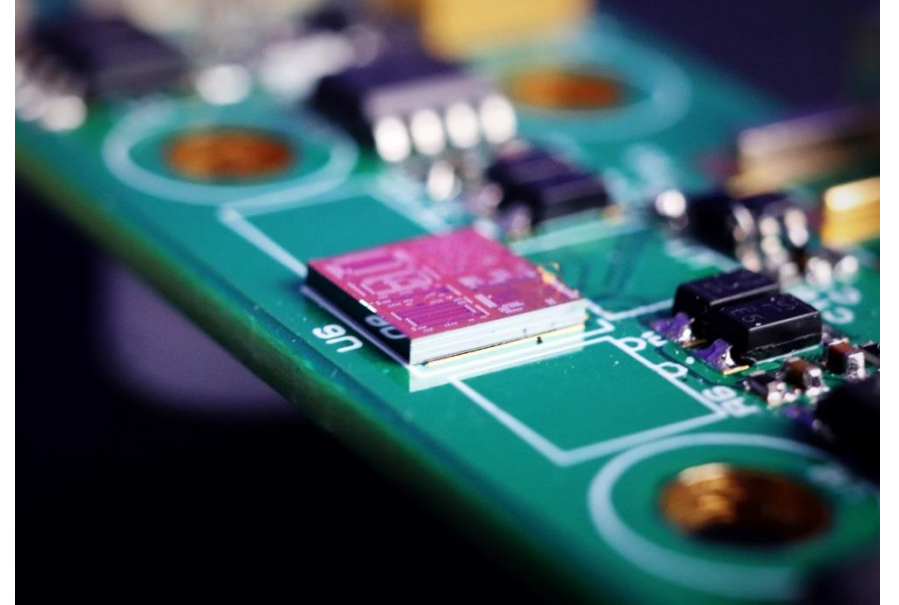
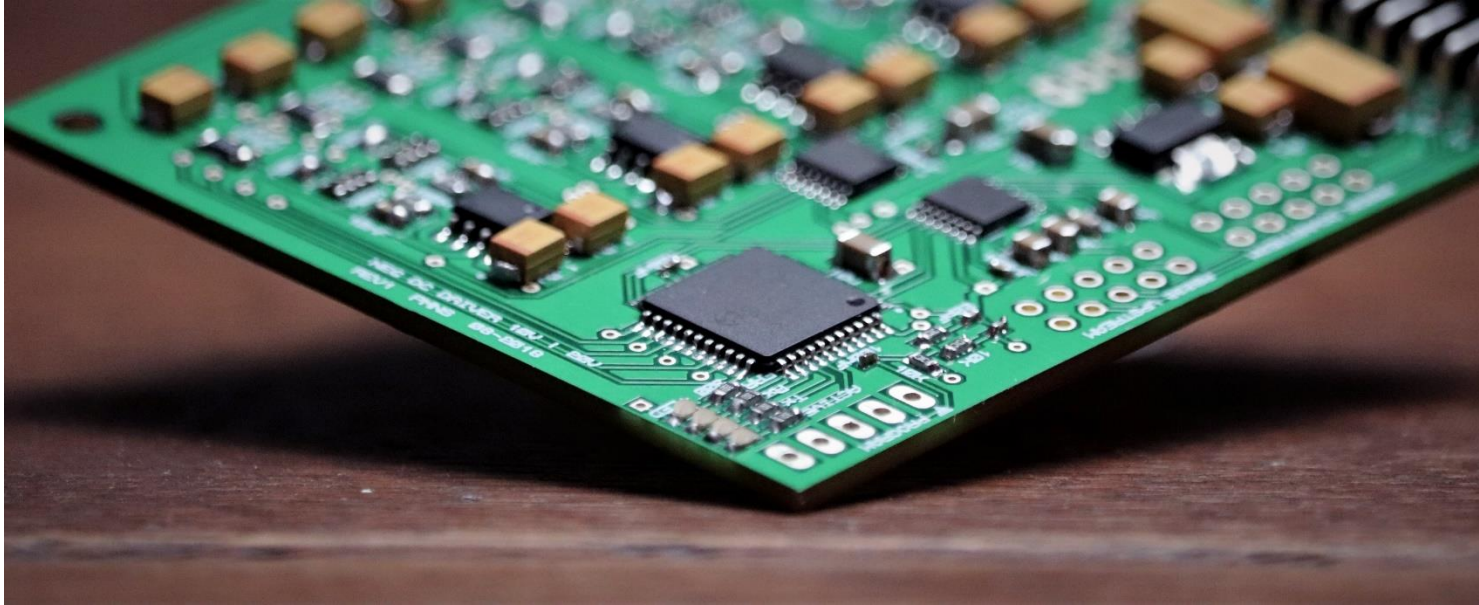


# MAKE DO: RESULTS



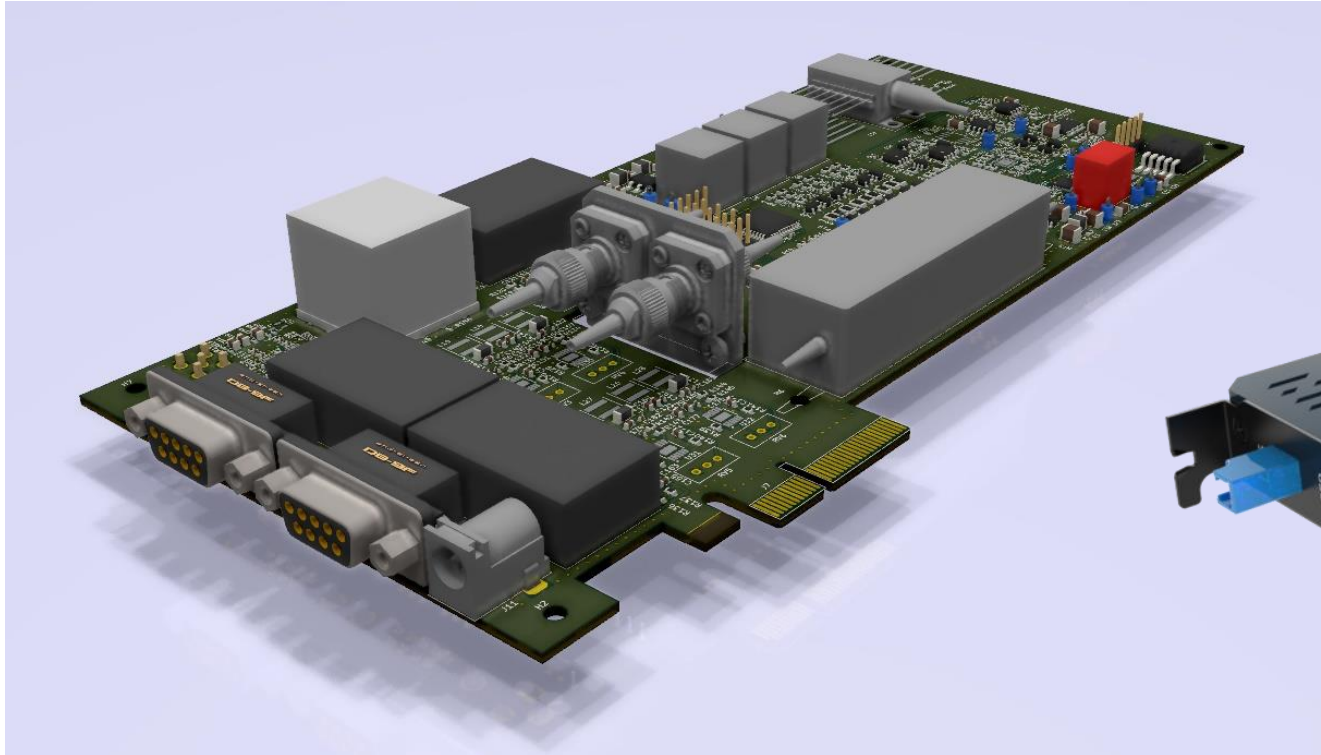


# MAKE BETTER





# MAKE BEST



\*Indicative Image



# CONTACT US



The Future of Secure Communications

**KETS**

Tweets 470 Following 182 Followers 556 Likes 464 [Follow](#)

**KETS Quantum**  
@kets\_quantum

We are developing optical communications hardware to enable the strongest digital encryption.

📍 Bristol, England  
🌐 kets-quantum.com  
📅 Joined July 2017

📷 98 Photos and videos

**Tweets** Tweets & replies Media

📌 Pinned Tweet

**KETS Quantum** @kets\_quantum · Jun 24

**KETS** Q-Day is coming - are you ready?

**Q-Day is coming and we are not prepared**  
We have a problem. Our advances in information technology have transformed our world and what's possible. Forget those futuristic "video..."  
kets-quantum.com

**Worldwide trends**

- #universitychallenge 1,038 Tweets
- #AnimalRescueLive 1,187 Tweets
- #QueenRadio 48.5K Tweets

**KETS**

SOLUTIONS ▾ ABOUT US ▾ CONTACT US 🔍

## THE FUTURE OF SECURE COMMUNICATIONS, TODAY

Future-proof communications security for devices and networks, powered by quantum security on a chip.

[FIND OUT MORE](#)





THE FUTURE OF SECURE COMMUNICATIONS



**Winner 2018**

UK's  
Most Innovative  
Small Cyber  
Security Company

**Philip Sibson**

CTO & Co-Founder

[philip.sibson@kets-quantum.com](mailto:philip.sibson@kets-quantum.com)