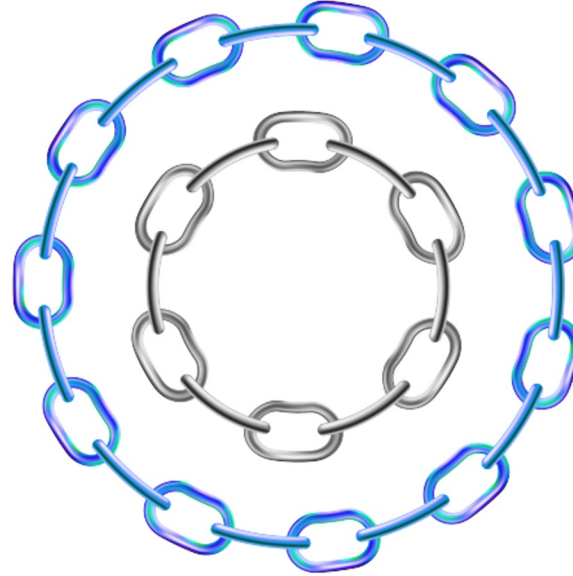


Decentralized Security

Cybersecurity solutions for Blockchain projects

Blockchain and Defence

Deloitte.



**The case for a globally accessible,
secure digital parts platform**

Blockchain in Aerospace & Defense

July 2018

Blockchain and Defence



Blockchain set to take flight in defence sector

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POTENTIAL USES OF BLOCKCHAIN BY THE U.S. DEPARTMENT OF DEFENSE



March 2020



Value Technology Foundation

<https://www.crowell.com/files/Potential-Uses-of-Blockchain-Technology-In-DoD.pdf>

Blockchain and Defence

POTENTIAL USES OF BLOCKCHAIN BY THE U.S. DEPARTMENT OF DEFENSE



<https://www.pwc.com/gx/en/aerospace-defence/pdf/blockchain-defence.pdf>

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This article
Canadian I

www.pwc.com/blockchain-defence

How blockchain can
transform defence assets
and give armed forces
an advantage on the
battlefield

August 2020



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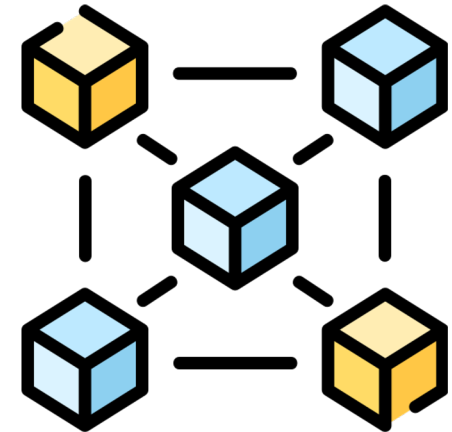
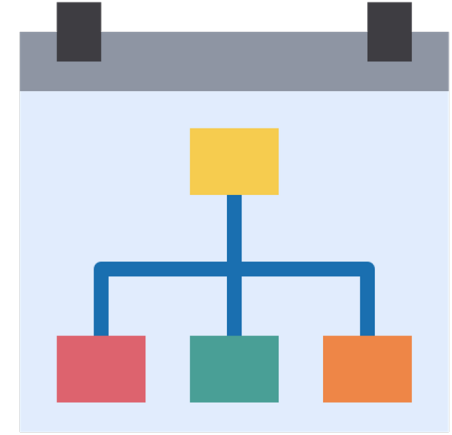
Some Use cases

Improving Cybersecurity. Using blockchain for enhanced authentication.

Reducing Single Points of Failure. Using blockchain as a robust control core for critical operation.

Enhance Defense Logistics/Supply Chain. Blockchain provides a resilient root of Trust.

Enhance the Transparency of Procurement Auditing. Blockchain can serve a transparent and trusted record.



Expertise

Cybersecurity is of paramount importance in Blockchain, a **faulty** design or implementation could have fatal consequences to individuals and affect the **reputation** of the Blockchain ecosystem as a whole.

Cryptographic **keys custody** is critical in Blockchain.

- **Users** could lose all their assets if their private key is compromised.
- In PoS/PoA, **nodes** need to protect the private keys tied to their stake.

There is a global shortage of blockchain experts and developers, and few of them have a **strong focus on cybersecurity** and can understand all **security implications** of a project.

Background

Isaac Agudo, CEO and Founder, is a professor from the NICS Lab (www.nics.uma.es) cyber security research group. He has for more than 10 years **experience** managing research projects and contracts with companies.

The University of Malaga participates in the startup. This gives us a **privileged position** to recruit and train talented students.

It also gives us access to **academic experts** in different fields, e.g. cryptography, networking, artificial intelligence, data science, law, etc.

Roadmap

Started as pure research and consultancy firm we want to consolidate an specialized blockchain development department in five years.

2016	2020	2021	2022 - 2023	2024-2025
NICS Lab met NuCypher <p>We started working with NuCypher as part a PhD. Thesis I was supervising</p>	Decentralized Security is born <ul style="list-style-type: none"> - We count with NuCypher as our first Customer. - We incorporate our first student 	We won our first Ethereum Foundation Grant <ul style="list-style-type: none"> - The grant was successful. - We incorporated new students - We applied for a second EF Grant 	Growing <ul style="list-style-type: none"> - We are incorporating more students, developers and advisors. - We have won a second grant from EF. - We are validating internally some new ideas. 	Consolidation <ul style="list-style-type: none"> - We consolidate as a blockchain company. - We specialize our consultancy services. - We keep doing internal R&D.

We offer

- **Consultancy**

We help organizations analysing and understanding all the implications of design decisions in Blockchain. Our goal is to speed up market launch and give a better security assurance.

- **Blockchain development/audits**

We can guide development, contribute code or even audit existing code based on our expertise. It's difficult to find experts who can code for blockchain and understand all the risks involved.



Isaac Agudo

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Associate Professor - *UMA*



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