

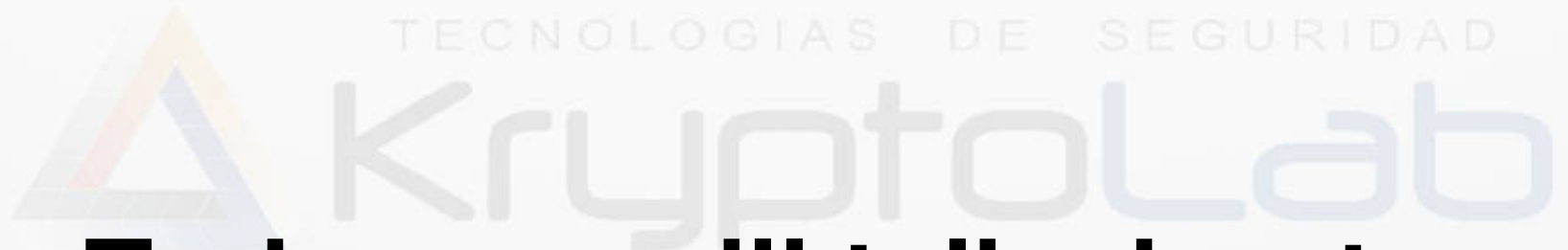


TECNOLOGIAS DE SEGURIDAD

KryptoLab



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**Today we will talk about a  
marriage celebrated in Peru**

**The marriage between  
Physical and Logical  
Security**

**Physical Security has more than 2000 years old and one everyday example is paper money**

**Ivan Vecco from Thomas Greg & Sons will talk briefly in a few minutes about Physical Security, they are working during 3 centuries in the field**



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# Logical Security





**Logical Security begins practically in 21 century and is based in mathematics and informatics, can be materialized in information contained in magnetic strips, chips or optical codes. I will talk later about Logical Security applied to documents issued by MML (Metropolitan Municipality of Lima)**

**We chose optical codes as the best repositories of Logical Security for 2 main reasons**

- 1. The information inside the code is not affected for electromagnetic fields or physical damage lesser than 30%**
- 2. Is “Tamper Evident” meaning, if the code looks good, the information **MUST** be read**

## **Why we began in Peru?**

**Because Peru has the best experts in America dedicated to the forgery of documents. So professional, that they even have a street named Azángaro where you can find them. The intersection between Azángaro and Bambas is the center of the forgery district. The young people and children use in slang “bamba” as a synonym of forgery**



**-This Adidas is “bamba”**

**-This Gucci handbag is “bamba”**

**-That Rolex is “bambaza”  
(augmentative for very and clearly a  
bad forgery)**

**-This Pokemon card is “bamba”**

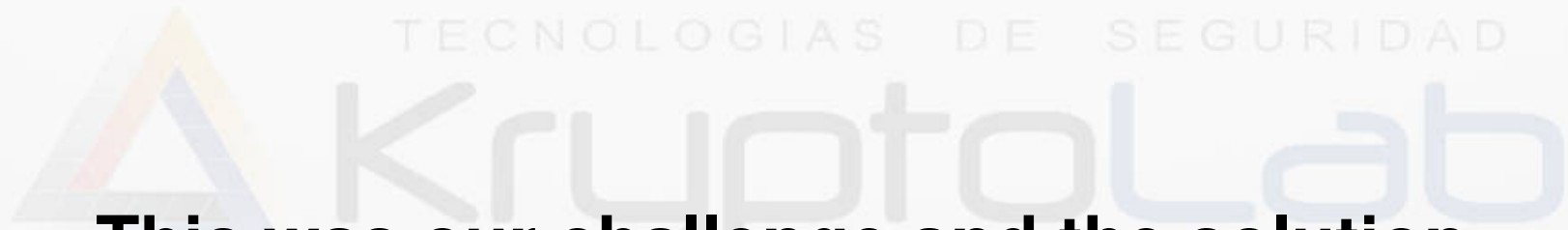




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**In Azángaro you can obtain a false birth certificate (“bamba”) with a Japanese mother's surname or father's surname, a false Koseki (Japanese family registry) and then obtain a real Japanese national ID and live (and kill) in Japan**



**This was our challenge and the solution was the perfect blend of two technologies, the Physical Security of Thomas Greg & Sons and the Logical Security applied using Ardaco PDMark® optical code**

**The consequence was 22 months with 0 (zero) forgery documents, in the country where forgery is a work of professionals, we can just simply said that we win**



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Using this perfect blend of technology we  
cay say that we have an **absolutely not  
forgery document** that can be objectively  
verified without doubt with a software  
downloaded from issuer Web page and a  
scanner you can buy in Lima in any  
supermarket for just US \$ 45



**Mr. Ivan Vecco will talk now about Physical Security, the first layer of our security system using the criteria of MLDS (Multi Layered Defense System) applied successfully to issue the new not forgery documents for MML Metropolitan Municipality of Lima, then we return with a brief description of the second layer of Logical Security and show how it works**