

# LITTLE SISTER<sup>®</sup>

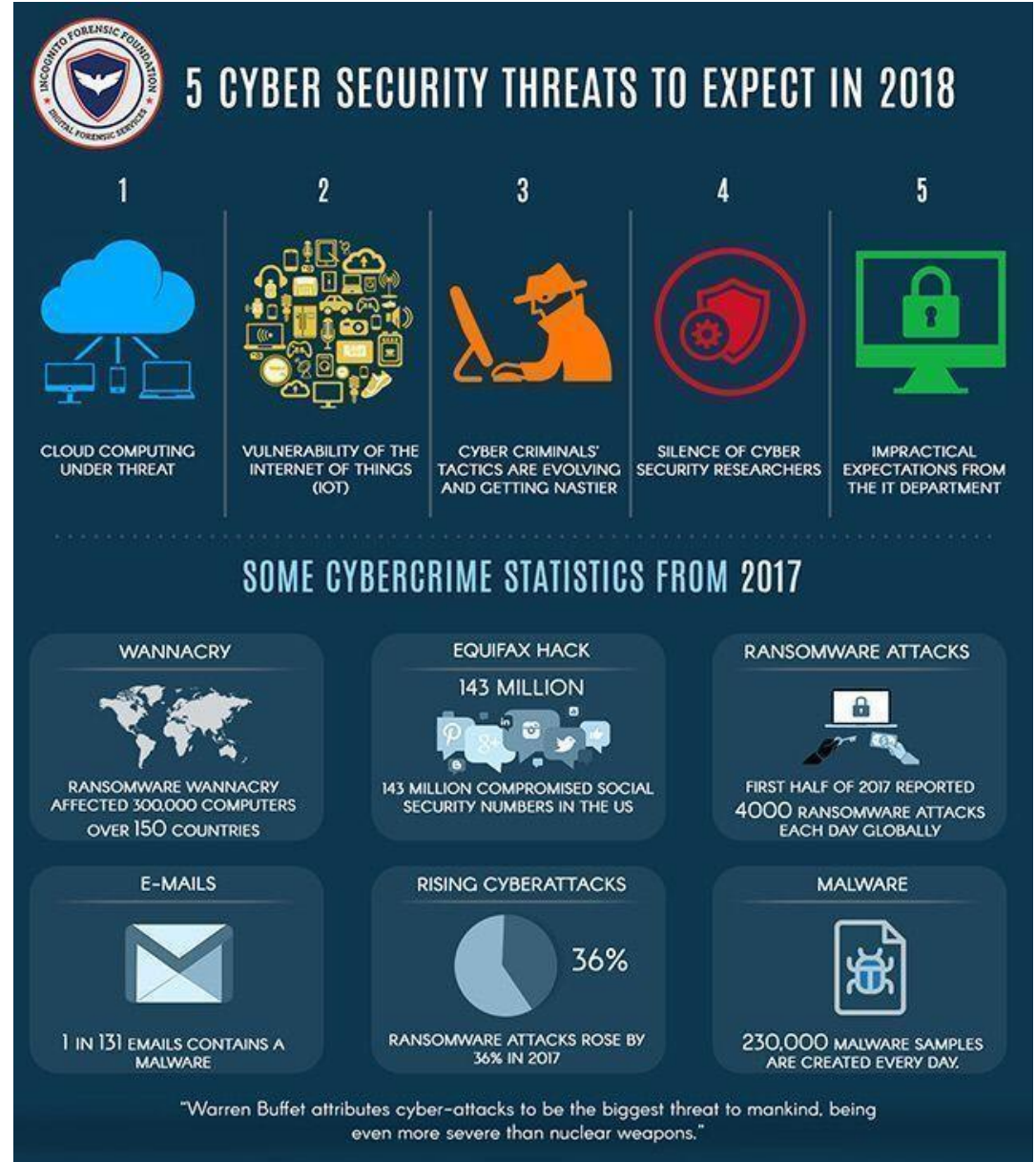
---

And A New Smart City Standard Proposal

Stuart Mendelsohn, Peter Waher  
Lilsis AB

"I don't know that much about cyber, but I do think that's the number one problem with mankind." Warren Buffett

## CYBER THREATS



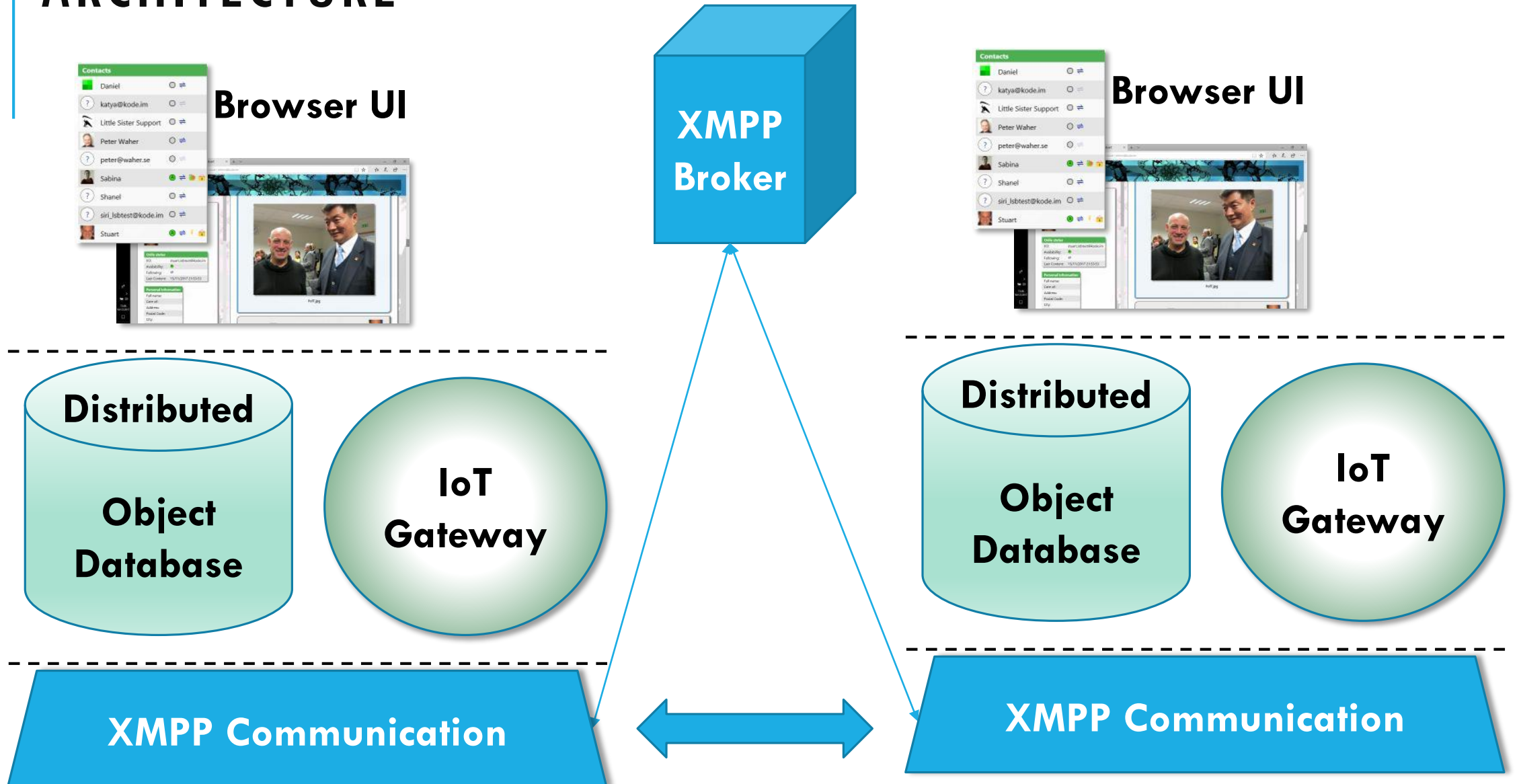
# SO LET'S USE A MORE SECURE INTERNET PROTOCOL STACK WITH EXTRA ENCRYPTION

Based on XMPP and add extra encryption.

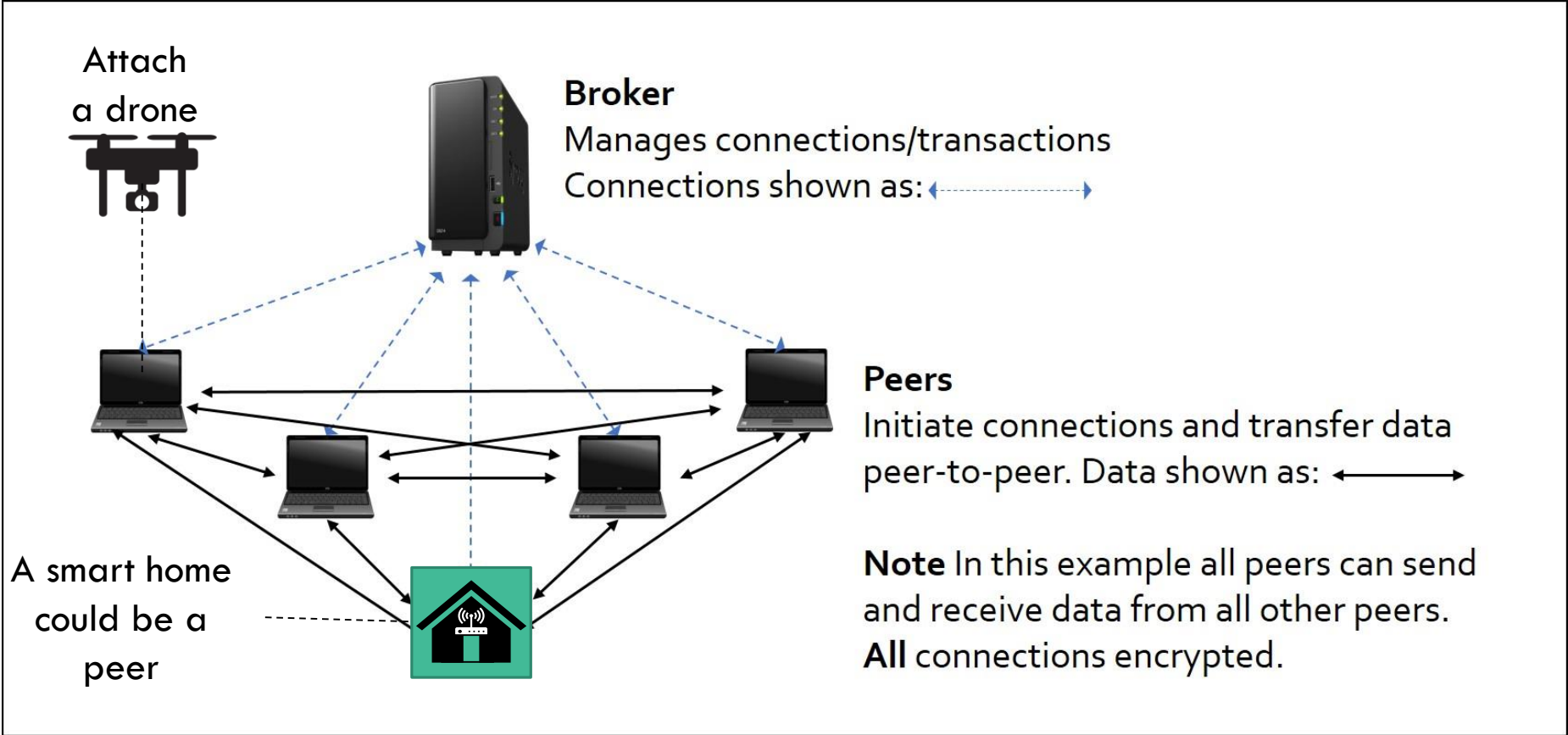
“Edge” architecture, all hardware can be “on premise”.

Encrypted database and backup included.

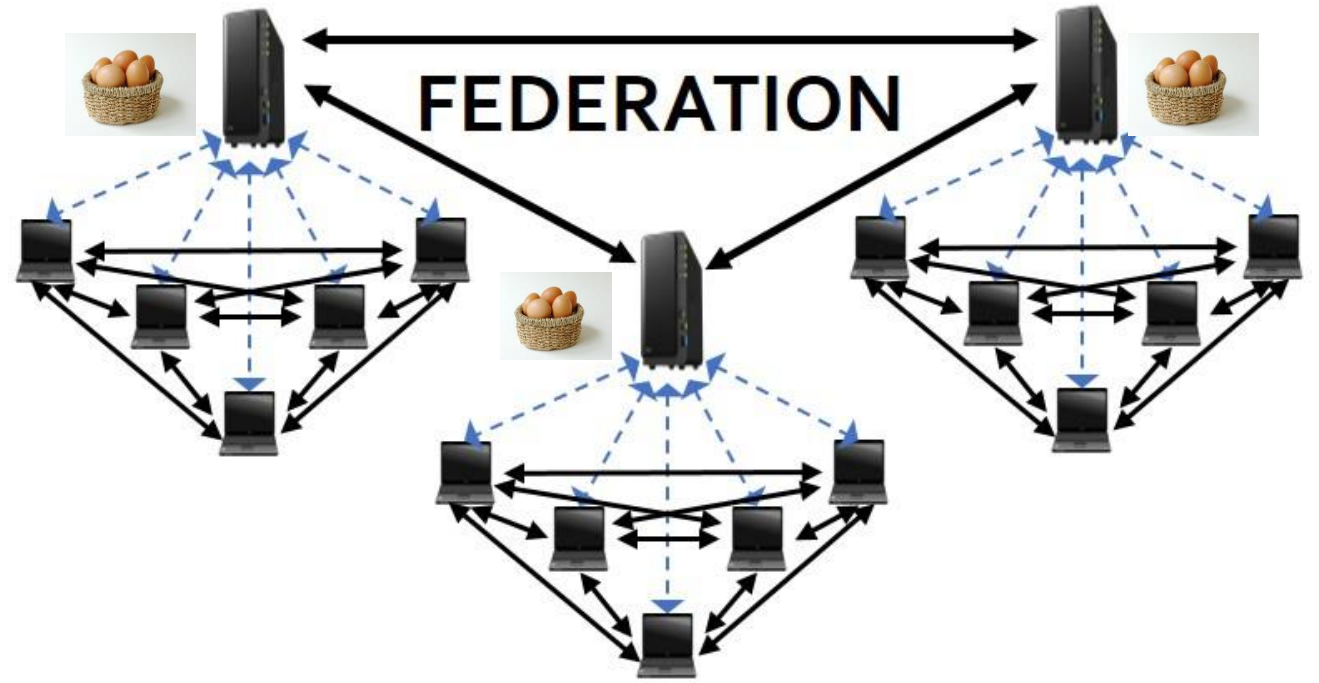
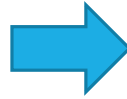
# ARCHITECTURE



**Privacy by Design.  
Recommended for the GDPR.**



**PEER-TO-PEER SECURE ARCHITECTURE**



REDUCED ATTACK SURFACES

RESILIENCE



# LILSIS AB AND LITTLE SISTER®

---

**Secure Private Social Network** with end-to-end encryption. Trust based (whitelist) with strong control over who sees your data. You can instantly revoke access to your data.

---

**For Machines** (IoT Gateway) and **People**. Machines can be members of a social network group. Multi-protocol support for flexibility. Modular software design, scriptable with APIs.

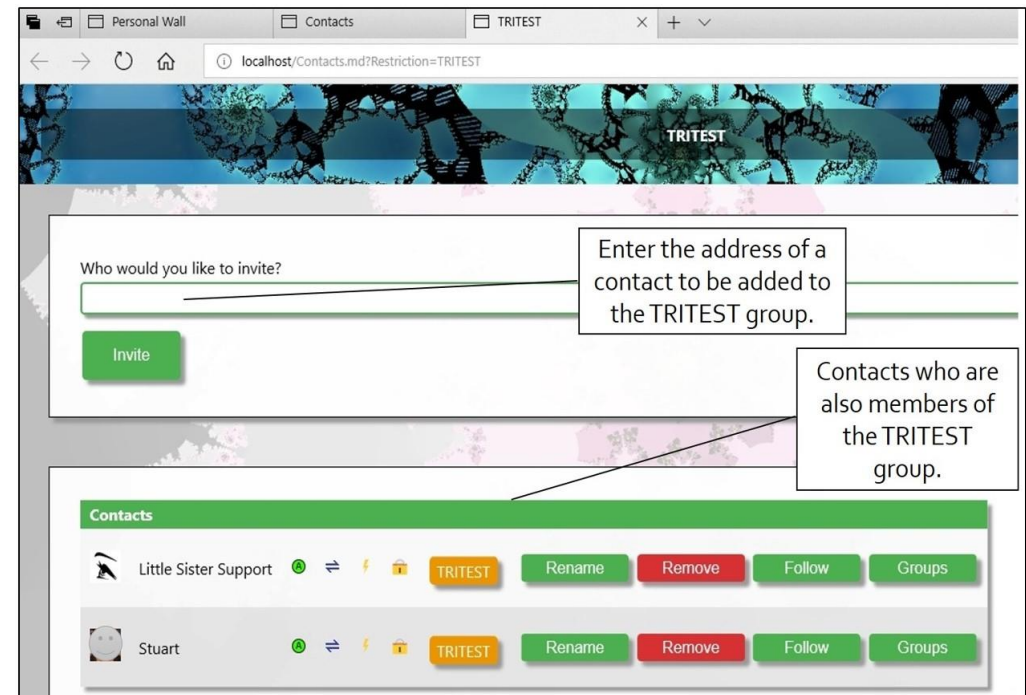
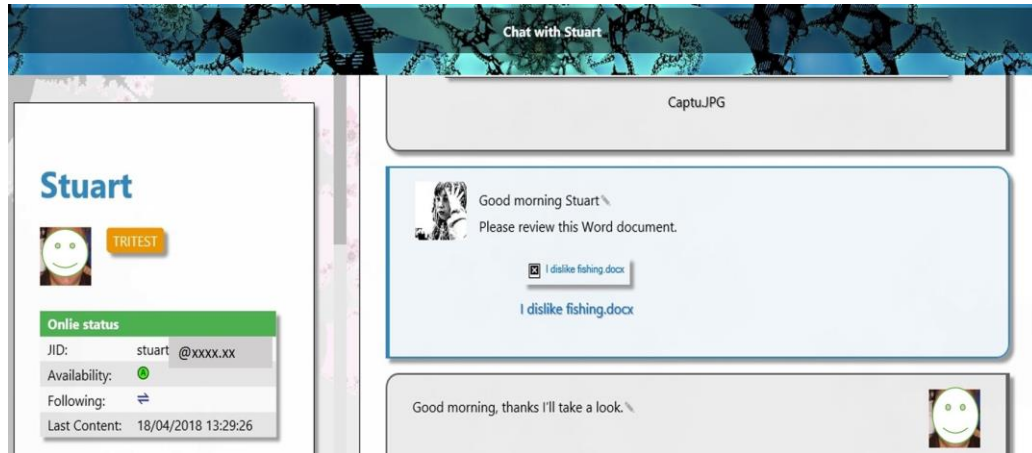
---

**Browser UI** for ease of customization and localization. Create your own corporate look and feel. Social network groups define access rights and privileges.

---

**Works on low cost PC hardware** (2GB compute stick tested). Full back up and restore, encrypted database included! Option to have all hardware on premise for maximum security.

# DEMO UI PROTOTYPE (YOU CAN CONFIGURE YOUR OWN)



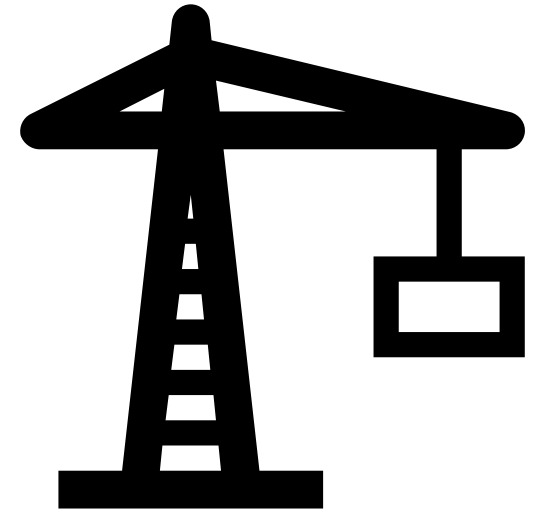
Embed  
Video

Functions as a Social Network  
for Machines and People



WITH SUPPORT FROM SWEDEN'S  
INTERNET FOUNDATION (IIS) PETER  
WAHER'S SMART CITY STANDARD  
CONTRIBUTION BUILDS ON WHAT WE  
HAVE DEVELOPED SO FAR.

---



# NEW SMART CITY STANDARD CONTRIBUTION - PROJECT SCOPE

FUNDED BY IIS  
(SWEDEN'S INTERNET  
FOUNDATION)

[HTTPS://WWW.IIS.SE/](https://www.iis.se/)



## Five main areas of Peter Waher's project:

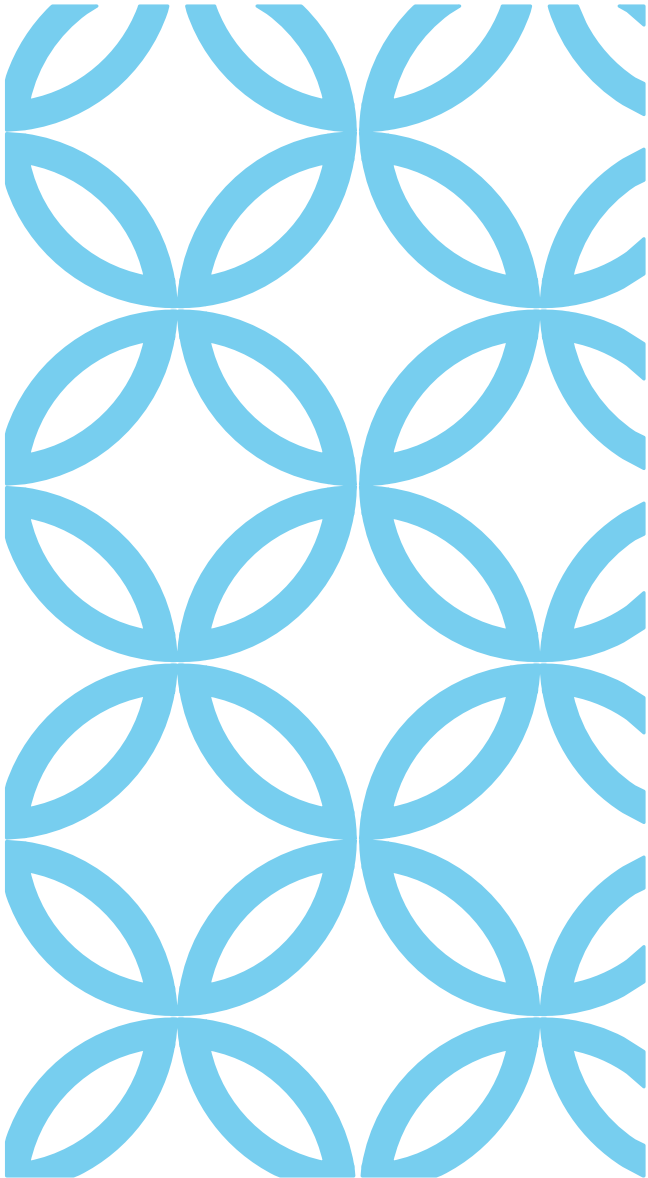
1) **Protocol Harmonization** (over technical and protocol boundaries)

2) **Interoperability**

3) **Identification** (Strong identities, trust based whitelist).

4) **Provisioning.**

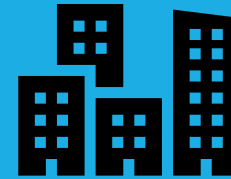
5) **Market for sensor data and operations.**  
**Smart contracts.** (Example: buy access to live HD drone data)



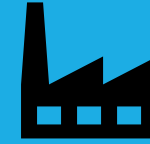
Smart Home



Smart Community



Smart City



Smart Factory



Smart Infrastructure



Smart Transport



Drones



---

# USE CASES



MORE  
INFORMATION AND  
IOT LABS!

The project will culminate with some presentations and IoT Labs at Goto 10, the IIS meeting place. Located at the IIS offices, Hammarby Kaj 10D, SE-12030 Stockholm.

**We will post further information later in the year.**



**THANK YOU!**

**WE WOULD LOVE TO HEAR FROM  
YOU!**



Stuart Mendelsohn



Peter Waher

Lilsis AB, Stockholm, Sweden.  
Little Sister® is a registered  
trademark of Lilsis AB.

[www.littlesister.se](http://www.littlesister.se)

[info@littlesister.se](mailto:info@littlesister.se)

[Press Release \(Swedish\)](#)