

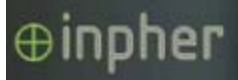


Inpher

 inpher

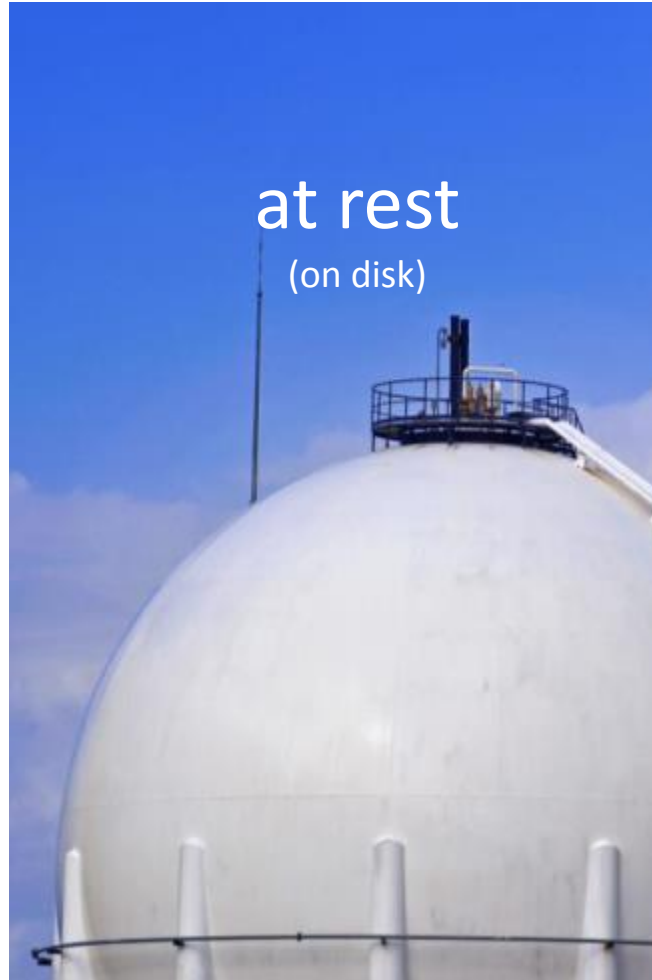
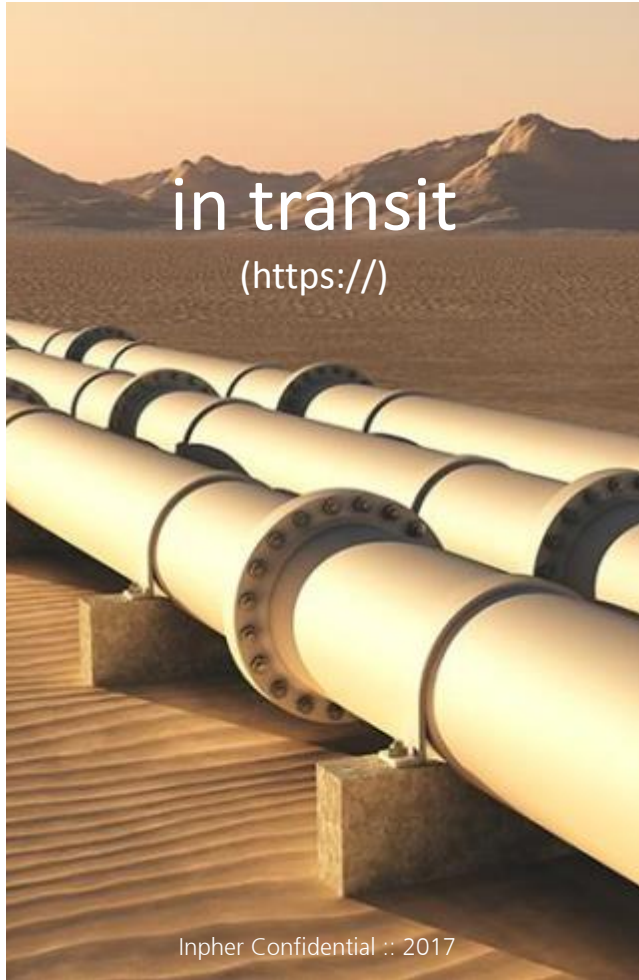
The logo for Inpher, consisting of a green circle with a white plus sign inside, followed by the word "inpher" in a grey, lowercase, sans-serif font.

Video removed

inpher



Data security begins with encryption, which has three phases:



Secret Computing™ beyond data security.

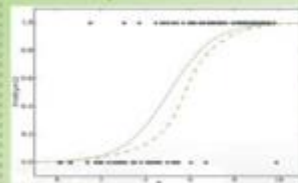
+ Governments

+ Organizations

+ Jurisdictions

+ Departments

+ Datacenters



Monetize analytics (without exposing data)

Ensure Regulatory Compliance (GDPR, DPO)

Privacy-preserving AML Investigation

Enhance KYC across departments

Improve Fraud models



Privacy Preserving Technology Comparison



Anonymization

Trivially re-identified
Masks valuable feature data

Differential Privacy

Introduces noise into data
Tradeoff between privacy and precision.
Unable to identify anomalies

Secret Computing™

Unique pat. pend. technology for encryption in use.
Performance: Up to 20,000x faster than prior SOTA
Precision: same results as plaintext compute
Security: Approved by **UBS** Security team in Zurich

Identifies outliers <i>PRECISION</i>			
Arithmetic accuracy <i>CORRECTNESS</i>			
Retains all data fields <i>FEATURES</i>			
Prevents re-identification <i>PRIVACY</i>			
Cryptographically Proven <i>SECURITY</i>			



XOR

Secret Computing™ at ING

- + Improve credit risk, customer prediction and fraud models
- + Privacy-compliant machine learning
- + Enable secure analytics in the cloud
- + Expand data sources for building robust models

ING





XOR

XOR Secret Computing™ Engine

Privacy-compliant customer analytics

Logistic Regression for Customer Prediction

24,000 data points

of Customers who will buy the lending product

+ Original Model = 30

+ Secret Computed Model= 50

66% increase in Sales pipeline because all features were preserved with XOR.

	probability	secret	TE score	secret
0.0	0.50	1.00	-0.50	0.5000
1.0	0.50	0.50	-0.50	0.5000
avg / total	0.50	0.75	-0.50	0.5000

	probability	secret	TE score	secret
0.0	0.50	1.00	-0.50	0.5000
1.0	0.50	0.50	-0.50	0.5000
avg / total	0.50	0.75	-0.50	0.5000

2014 Future + 2325 -0.07% S&P 500 + 2071.50 -0.01% Stock 600 + 396.34 -0.17% U.S. 10 Yr + 1/32 Yield 2.379% Crude Oil \$43.00 0.00% Euro + 1.0440

THE WALL STREET JOURNAL

WSJ JOURNAL

ING Belgium Sees Opportunities for 'Secret' Sharing of Encrypted Data

Zero-knowledge computing would let companies analyze encrypted information without revealing any secret information

By Sara Cavin/Genie
Jan 5, 2017 10:21 pm ET



The bank is in the early stages of experimenting with the technology, developed by New York-based Inpher Inc., but executives say they already see its potential.



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OCBC, StarHub invest \$6m to push Singapore's "We Economy"



The banking/telco collaboration will be centered on Artificial Intelligence (AI) and Internet of Things (IoT) to drive business outcomes across industries.

- + **Experienced Entrepreneurs** with prior successful products and exits.
- + **6 PhDs with over 100 papers** published in math, ML and cryptography.
- + **Leading investors** from Silicon Valley, New York and Switzerland
- + **Global Top 300 list** of customer and partner announcements.



coming soon...



DR. JORDAN BRANDT | CEO



DR. DIMITAR JETCHEV | CTO



DR. NICOLAS GAMA- Chief Computer Scientist



ALEXANDER PETRIC, CISSP- Solutions Architect



STANISLAV PECENY- Software Engineer



ELJANE TSCHOPP- Human Operations Manager



DR. CHRISTINA BOURA- Technical Advisor



DR. MARCEL KELLER- Technical Advisor



Dr. Morten Dahl- ML and Crypto