

What does it mean to be a "data-driven" organization?





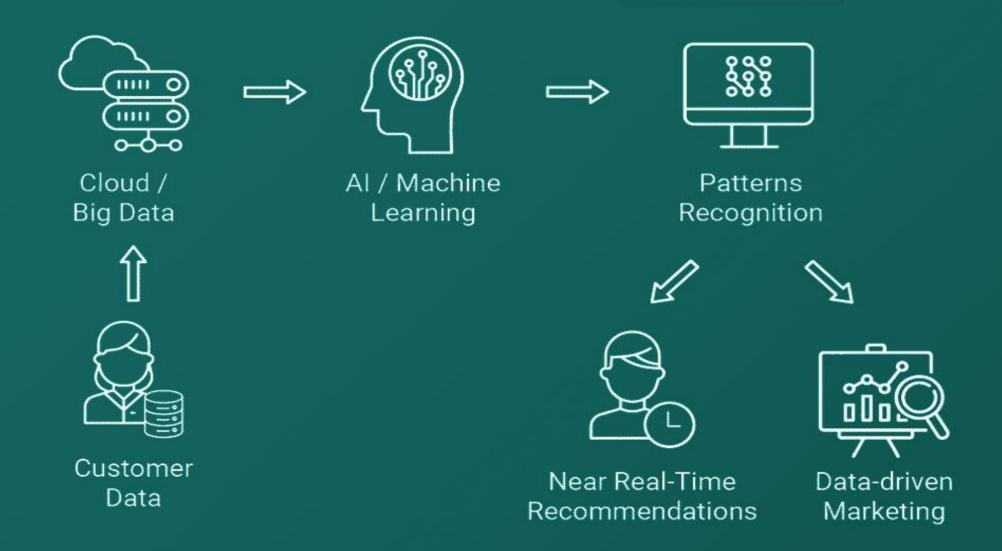


Place data at the front and center of the work done Utilize data effectively and generate insights

Drive change, innovate new products, acquire more customers

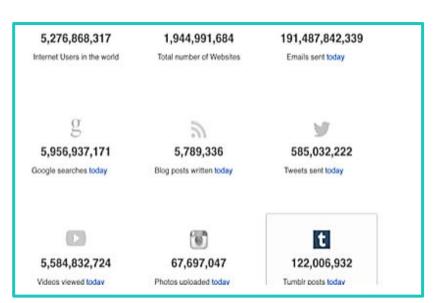


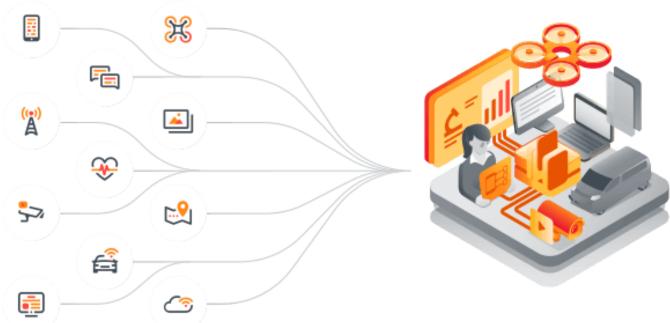
Data-Driven Decision Making

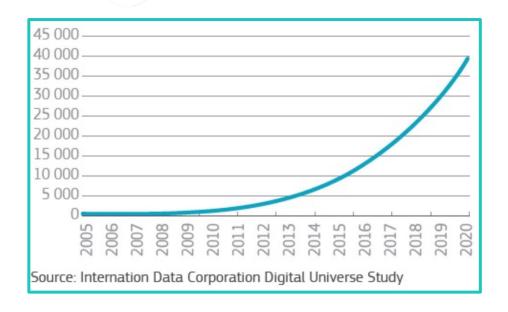


How did we get here?

The Big-Bang of Data!









How did we get here? Better tools for better data



Cellphone More powerful than computers used for Apollo mission



Tabulating Systems Era



Programmable Systems Era









An Explosion of Bandwidth and Computational Power



BENEFITS OF DATA-DRIVEN DECISION MAKING









Operational

Excellence

Compliance

Risk &







Data
Driven
People
and
Culture



Architecture & Technology



Organization & Governance



Trusted
Data & Analytics



Ecosystems

Demand Side

Supply Side



SQream - A New Architecture For Large Scale Data



Adding propellers to old planes won't turn them into jets



GPU Based SQL Analytics Platform @ Any Scale



POWERED BY GPUs

- Massively parallel engine
- Faster & smaller than CPUs
- Consolidate servers



MASSIVELY SCALABLE

- Terabytes to petabytes
- Not limited by RAM
- Not limited by data size



LIGHTNING FAST

- Ingests 3TB/hour per GPU
- Accelerated steaming
- Always-on compression



EXTENSIBLE FOR ML/AI

- · Python, Al, Jupyter, etc.
- Built for data science
- Accelerated training



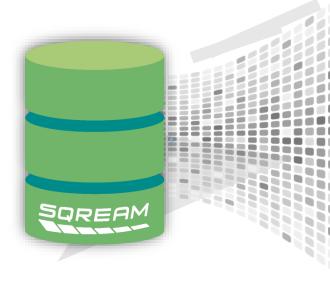
MINIMAL FOOTPRINT

- High throughput compute
- Very cost-efficient
- Lowest CO₂ emissions



SQL DATABASE

- Familiar ANSI SQL
- Standard connectors
- · No learning curve



GPU Based SQL Analytics Platform @ Any Scale





Rapid Analytics On More Data More Frequently

Rapidly analyze the full scope of your **massive data**, from terabytes to petabytes, to achieve **critical insights** that were previously unattainable

ANALYZE DATA FASTER

> RUN SQL QUERIES FASTER

ANALYZE MORE DATA

RUN QUERIES ON MORE DATA ANALYZE MORE DIMENSIONS

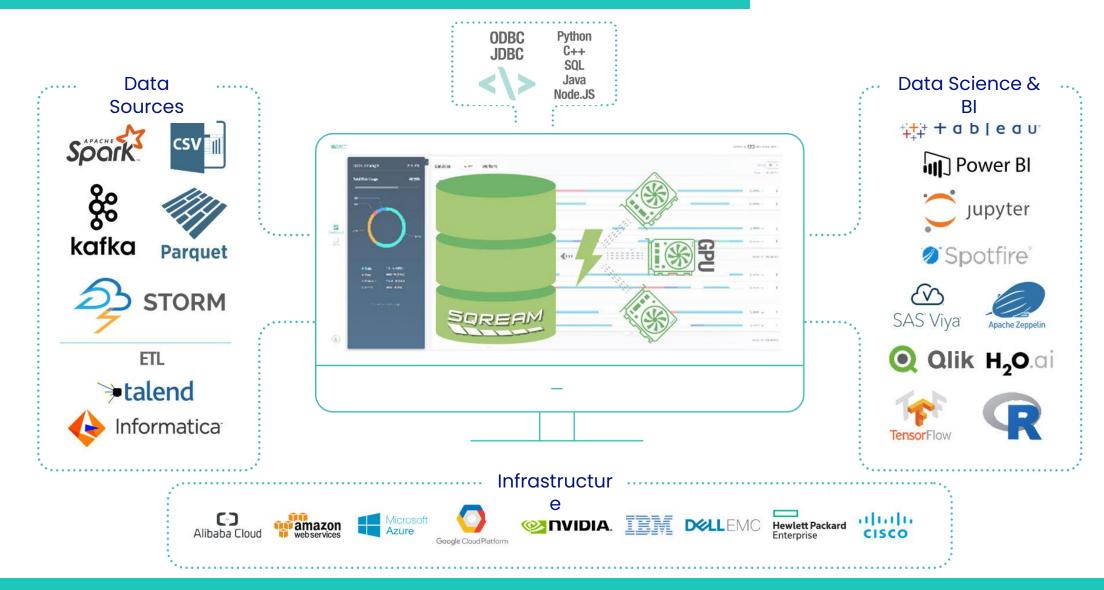
ENABLE MORE COMPLEX JOINS

SHORTEN
DATA
PREPARATION

AD-HOC QUERIES ON RAW DATA

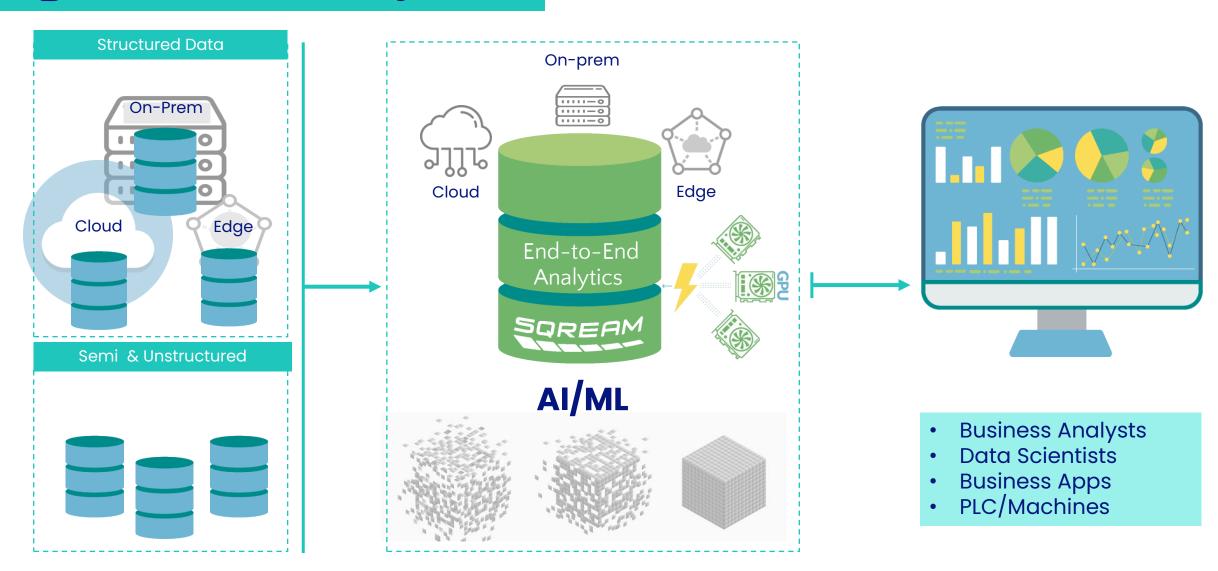


Seamless integration into your ecosystem





Insights Platform @ any scale





Benchmarks

Telco Customer Use Case – 13 Queries 11.5TB

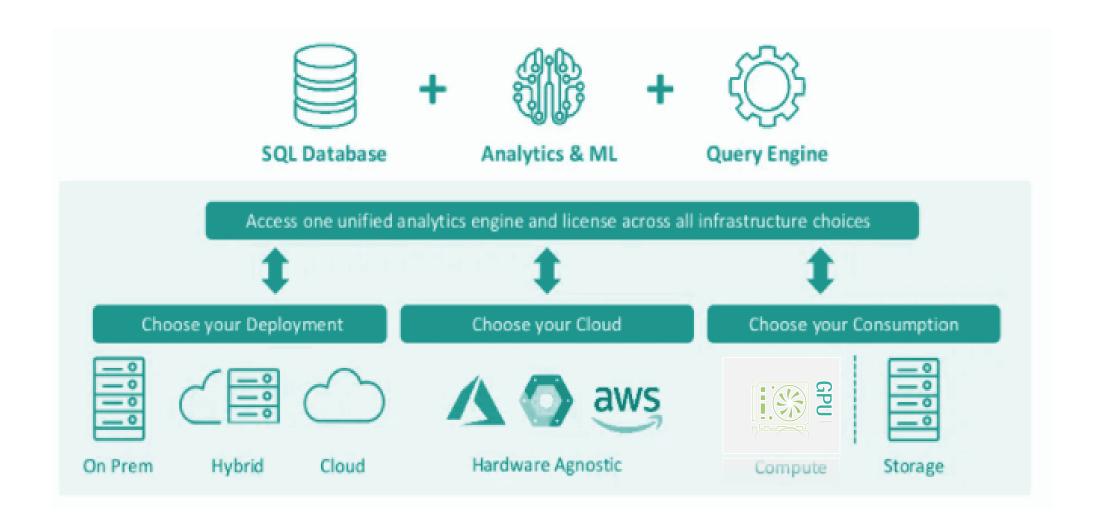


Google Cloud Pletform		
SQream	Snowflake	Google BigQuery
0:28:01	4:15:56	0:21:25
3:07:21	3:57:40	7:01:13
3:35:22	8:13:36	7:22:38
\$ 63.00	\$ 131.00	\$ 112.00
\$96.00	\$180.00	\$392.00

Azure		
SQream	Snowflake	Synapse
0:36:00	5:52:15	17:09:32
7:12:16	11:20:28	X*
7:48:16	17:12:43	25:39:32
\$ 74.00	\$ 275.00	\$ 461.00
\$108.00	\$330.00	\$ 523.00
		Crushed after 08:30 h

*Crushed after 08:30 hours

End to End Acceleration SQL Solution





Enterprise Fraud Management (EFM) in Financial Institutions Using ML

Fraudulent transactions have cost a financial institution in the Netherlands millions of Euros per year, due to their not being detected in time and acted upon accordingly.

Using Machine Learning models has allowed this organization to study how regular transactions behave, and more importantly, to pinpoint abnormalities and swiftly prevent fraud. In order for the model to be as accurate as possible, it needs to be based on a wide and all-encompassing database, joining together a vast array of data sources.





18 million
Euros saved
per year



47.6% reduction in fraudulent transactions



Aggregation times reduced from 12 hours to 40 minutes **Industry Vertical:**

Finance

Economic Buyer:

Security and Monitoring Team

Enabler:

BI Teams; Lead Data Scientist

Why Do Anything?

According to CNBC, users around the world lost almost 6-billion dollars to banking fraud in 2021 alone, a 70% rise in comparison to 2020, breaking some dubious records. In addition, the European Union has allocated a dedicated budget to measure, prevent, detect, report, and prosecute fraud.

Why Now?

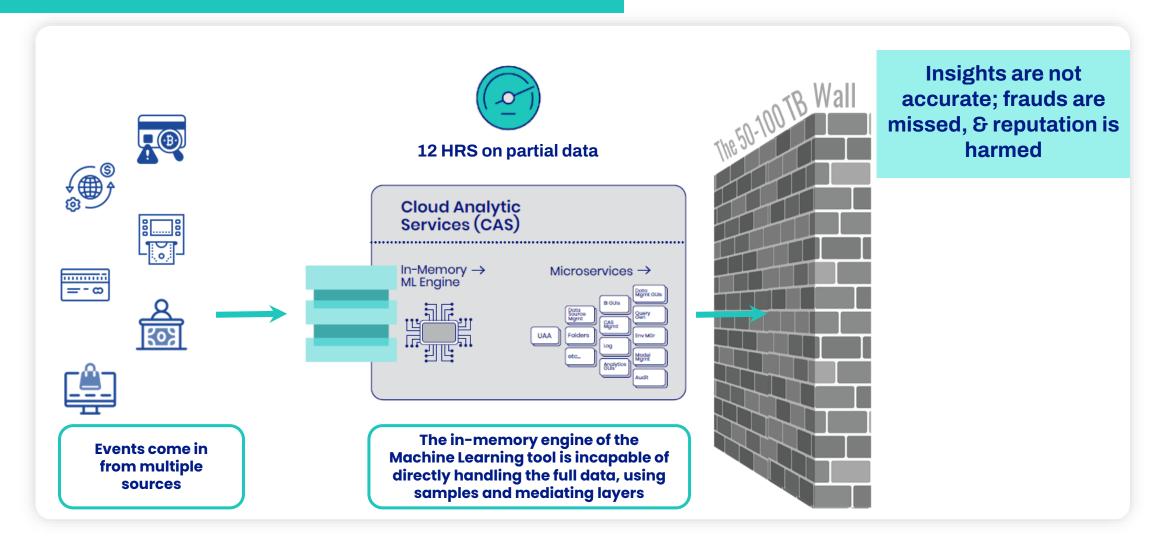
With digital transactions increasing due to Covid-19, as well as the rise in popularity of Apple and Google Pay causing an increase in more complex frauds, the organization was harmed both financially and in reputation. This motivated their search to improve EFM.

Why SQream?

- Flexible connectivity to leading Machine Learning vendors such as SAS and IBM
- Fast ingestion, near-real-time feedback
- Rapid joining of many tables with large datasets to fit the Machine Learning model format and achieve multiple reference points
- Can upload 30 TB in 2-hours
- Supports multiple data types, SQream runs 5x faster than the other competitors

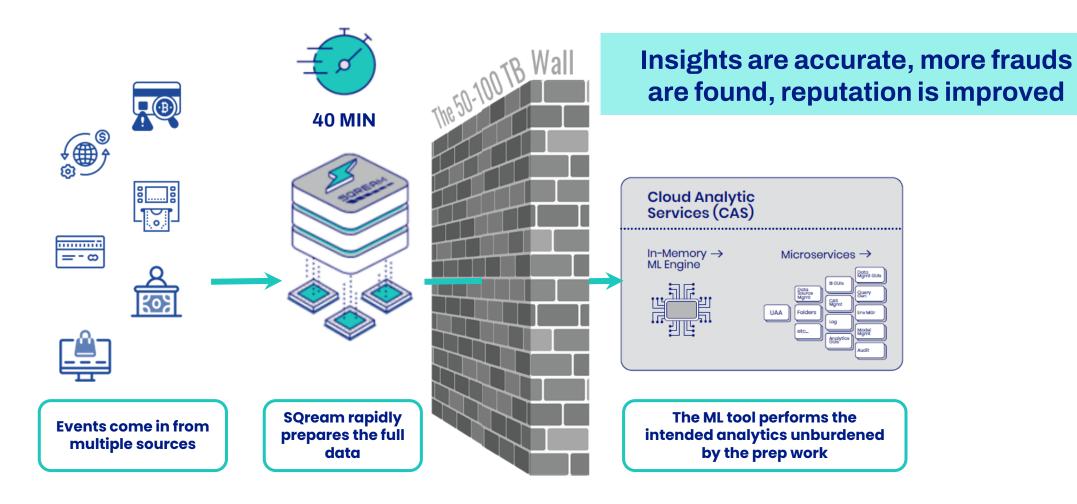


Architecture Consideration (Before)





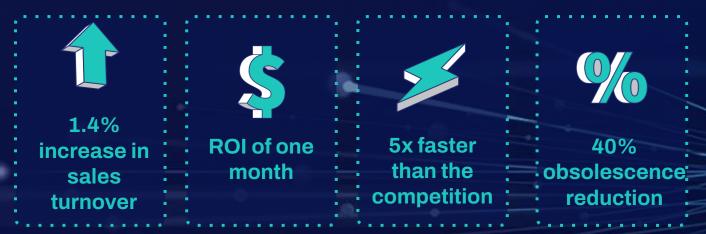
Architecture Consideration (After)





Embracing the Digital Market at PetaByte Scale

A large retail chain in the UK has decided to adopt an extensive, data analytics-based approach to its marketing and inventory management, to increase customer loyalty and optimize stock and warehousing. As they begin combining different sources (web, app, ERP tools and more) they find that their current tools cannot handle the volume, forcing them to rely on partial data and slow processing. Using SQream, they manage to begin utilizing the full scale of collected data for accurate and rapid insights.



Industry Vertical: Retail

Economic Buyer: CMO; CEO

Enabler: Head of Operations Development

Why Do Anything?

Covid-19 has caused a massive shift in consumer habits, emphasizing a move to a more online shopping oriented retail landscape. This move is a gamechanger, opening the door to a new type of customer-based approach, in a game that the retailer has decided they are ready to win.

Why Now?

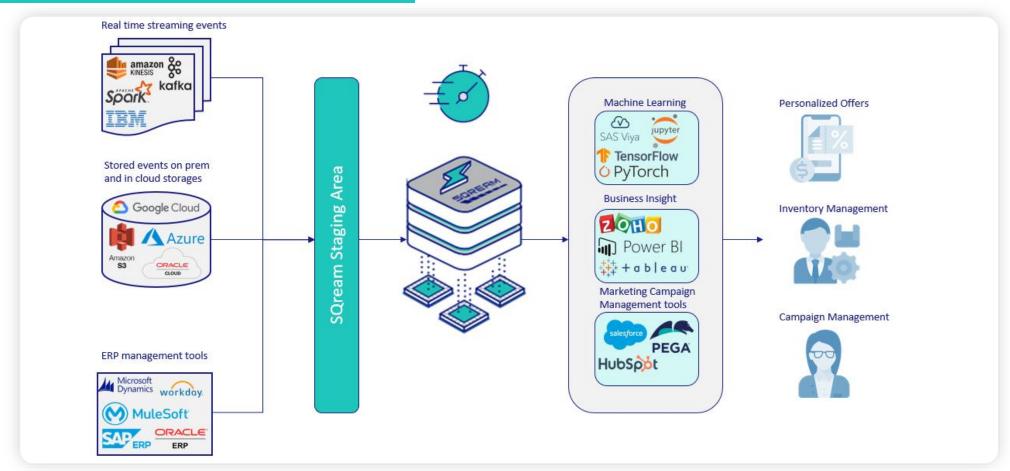
The shift to the online space brings with it another critical result: physical distance between seller and consumer is now less important, and loyalty will be determined by ease-of-use and personalization of offers. If a retailer wants to retain existing customers and gain new ones, the customer must feel catered to.

Why SQream?

- Ability to rapidly join many tables with large datasets.
- Ease of use on ML and BI tools on the PetaByte scale.
- Ability to run on- and off-premise and link between them.
- Real-time streaming Pub/Sub with Kafka, trigger transformation based on business events.
- SQream runs 5x faster than the competition.



Architecture Consideration



- SQream platform receives data (files, events, structured data) from multiple resources.
- SQream engine rapidly performs various joins and aggregations in order to prepare the data.
- The processed results are ready to be sent to various tools.
- Insights are available immediately to both automated systems and relevant decision makers.

Personalization for Always-on Marketing (Next-Best-Action)

Tier O in Europe has adopted SQream to create a scalable, cost-effective, ultra-fast processing layer that can join batch and streaming data, and run complicated transformations with the ability to store data on the cloud in relational structure.



Industry Vertical: Telco

Economic Buyer:

CMO; CEO

Enabler:

Head of Engineering

Why Do Anything?

The current solution was failing. It was not stable, required lots of patching and ad-hoc resources, and still didn't deliver smooth operation. The Tier 0 operator was losing customers to the competition. In addition, the current solution didn't have the capacity to incorporate new parts of the business, such as cable customers and IoT.

Why Now?

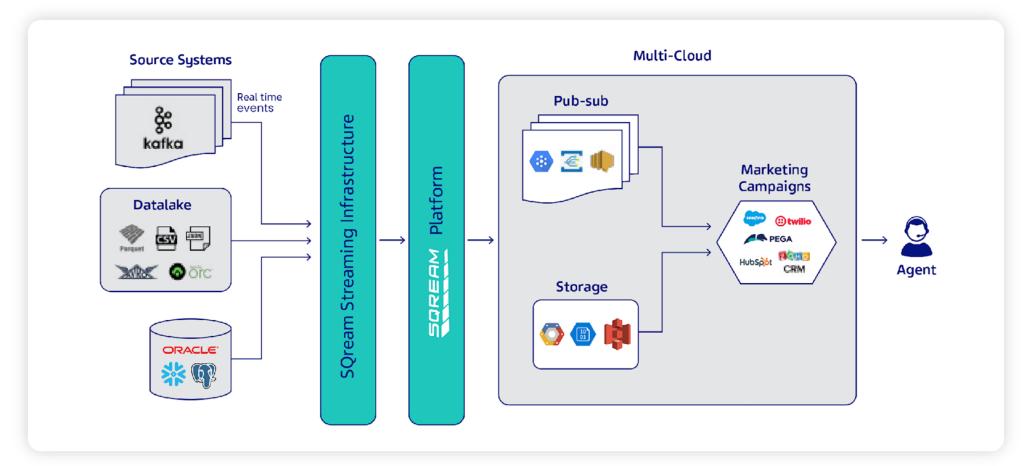
The customer lost approximately one-million Euro per day, due to inaccurate data. This could stretch from days to weeks.

Why SQream?

- Ability to rapidly join many tables with large datasets.
- Ability to recognize only the delta of changes (incremented instead of full load).
- · Ability to run on- and off-premise and link between them.
- Real-time streaming Pub/Sub with Kafka, trigger transformation based on business events.
- SQream runs 5x faster than the competition.



Architecture Consideration



- SQream platform ingests data (files, events, structured data) from multiple resources.
- SQream engine performs various joins and aggregations in order to prepare the data for Pega.
- The processed results are ready to be sent to the CRM various data stores.
- The agent has an up-to-date Next-Best-offer for every customer.

Trusted by 250+ large enterprises

























































Come to our booth to see a demo & giveaways!

To book a "Trial & Buy",
Feel free to contact us on all platforms!





SQreamTech





SQream

