Maximizing the Value of Legacy Applications
COMPANY OVERVIEW

Our vision is to liberate organizations from the artificial constraints, imposed by software lock-in, that restrict the choice of computing infrastructure for legacy applications.

Company

- Founded 2011
- Zurich, London, Paris, Toronto
- 130 employees
  - 70 in research, development & QA
- Software Development, Sales, Support & Implementation

Products

L²Labs Software Defined Mainframe®
Specialized container that enables mainframe applications to be rehosted to RedHat Linux on x86 (either on-premise or in the cloud) Without requiring recompilation and/or changes to source-code

L²Labs Workbench
Eclipse plugin’s; LLVM compilers and LLDB debuggers for COBOL & PL/1 to enable development and testing of mainframe applications via a thoroughly modern pipeline

Launched Q4 2017
Definition of Legacy

**noun**
1. an amount of money or property left to someone in a will.  
   "my grandmother died and unexpectedly left me a small legacy"

   **Similar:** bequest, inheritance, heritage, bequeathal, bestowal

2. *US*  
   an applicant to a particular college or university who is regarded preferentially because a parent or other relative attended the same institution.  
   "being a legacy increased a student's chance of being accepted to a highly selective college by up to 45 per cent"

**adjective**  
**COMPUTING**  

denoting or relating to software or hardware that has been superseded but is difficult to replace because of its wide use.

Translations, word origin, and more definitions
Software Lock-In

In economics, vendor lock-in, also known as proprietary lock-in or customer lock-in, makes a customer dependent on a vendor for products and services, unable to use another vendor without substantial switching costs.

Wikipedia
Freedom to Choose
LzLabs Software Defined Mainframe

Virtual Machine

z/Series™ Executable Version of Customer Application

```
11010111010100100
10010010100100001
0101010101000000
0000000000000000
000001101001000
1010010001010010
1010010001010000
0000000000000000
0000000001100010
0001010101010000
1001001001010111
```

Just-in-Time Compilation Memory Management

x86 Executable Version of Customer Application

```
0101110101101010
1110101110101010
1011101001010110
<LzNativeInterface>
1110010010010000
1010010001010010
0101010101010010
0000000000000000
0000000000000000
0000000000000000
```

Program Load

LzLabs Virtual Machine (L²VM)
L²Labs Software Defined Mainframe

Native Interface

LzNativeInterface (L²NI)

Languages Subsystem Compatibility Operating System Features

Access Methods Database Transparency

Security Compatibility

Access Methods

Protocols
- ODBC/JDBC/DRDA
- MQ
- MRO/CTG/IPIC
- Web Services
- TN3270
- NE
- FTP

Security

File System

Metrics

Database

Linux

Protocols
- LLVM/LLDB Compilers for PL/1 & COBOL
- Integrated into standard development pipeline
A Bridge to the Cloud
A Bridge to the Cloud
Modernization Developer Experience

RED HAT®
OPENSIFT
Container Platform

LLVM
JVM
LzVM

Files
Programs Dependencies (including LzLabs Software Defined Mainframe)
Network Settings
Security
Operating System Dependencies
Other Configuration
Other Container Images

Linux
A Bridge to the Cloud
Modern Development Pipeline
Project Structure
Customer journey

Fixed-price service

1-2 months

Fixed-price service

12-18 months

Subscription License
(Incl. maintenance & support)

Recurring
Summary

Ensure your right to choose the most appropriate platform for your legacy workload is unencumbered by software lock-in.

Eliminate all the historical friction associated with rehosting mainframe workload.

Regardless of platform choice, ensure the modernization experience is as efficient as any other contemporary development.
Questions