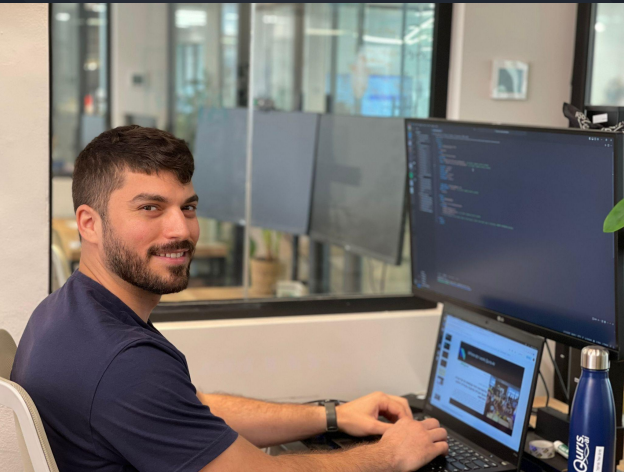



# Unleashing the Power of Directus

Revolutionizing Data Management for Startups

Michael Salaverry @ [Quris.ai](#)





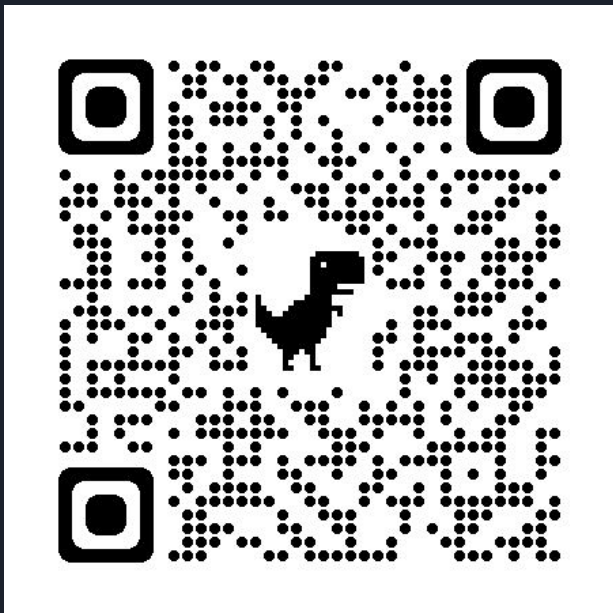
# Did I start screen recording?

Let's check...

# Who am I?

Former Wix, Axonize, Intuit - since 2016

Follow me on [github.com/barakplasma](https://github.com/barakplasma)



I'm Michael Salaverry IRL, but **barakplasma** on:

- Twitter
- Dev.to
- [linkedin.com/in/michaelsalaverry/](https://www.linkedin.com/in/michaelsalaverry/)

Other open-source things I published to github:

Rust on Android cron job for rain alerts from IMS, Queuing software with WS/Redis, Iron Dome game, HackerNews TTS in Vue, contributions to Go RSS reader w/GPT summarization, and various bug fixes for upstream open source

Where do I work; Quris-AI

TheMarker

TheMarker Labels | AI 2023

# פלטפורמת חיזוי מבוססת AI של חברת Quris מובילה מהפכה בתהליכי פיתוח התרופות

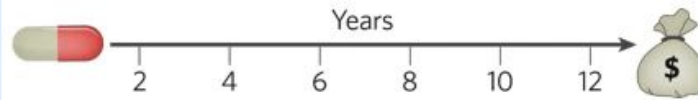
"מטופל על שבב" – פיתוח פורץ דרך של חברת Quris, מייצג את הדור החדש של הטכנולוגיה הרפואית. זאת באמצעות מידע מדויק מבוסס בינה מלאכותית, הנאסף מאיברים המדמים את גוף האדם, ומספק נתונים אמינים לפיתוח תרופות החוסכים את עלויות הניסויים הקליניים. "מדובר במהפכה שמשנה באופן דרמטי את היכולת לפתח ולהתאים תרופות באופן אישי", אומר ד"ר צחון בנטואיץ, מייסד ומנכ"ל החברה

Quris  
ai





Drug development is slow and expensive, costing approximately \$2.6 billion and spanning over 12 years



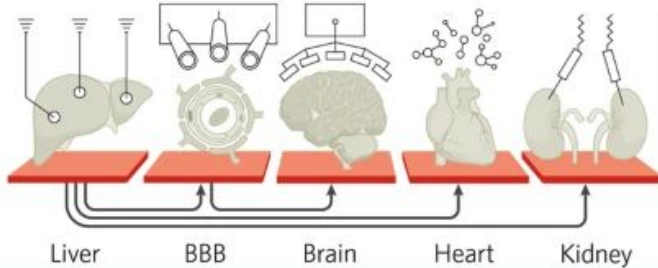
①

Reprogramming human blood or skin samples to create iPSC, generates a genomic-diverse bio platform for capturing varied responses to tested drugs

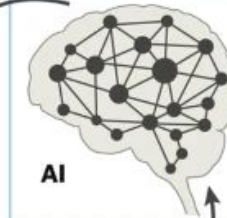


②

Multi miniaturized 3D human organs and high-throughput capture organ level-response to drugs through real-time sensing, electrophysiological measurements and imaging



③

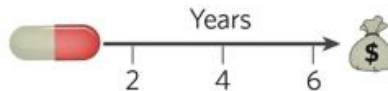


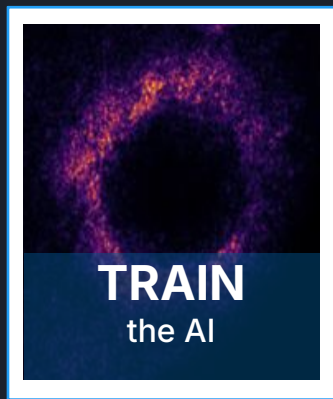
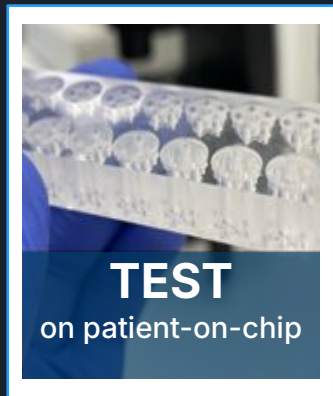
Data generated in the system trains the ML-classification algorithm to reach highly predictive capabilities of drug toxicity/safety



④

Delivering safer, cost- and time-effective drugs







2.5M

cell-hours  
real-time data

14M

cell  
images

6M

Metabolite  
nano-sensor  
data-points

150M

Model  
parameters  
In ML network

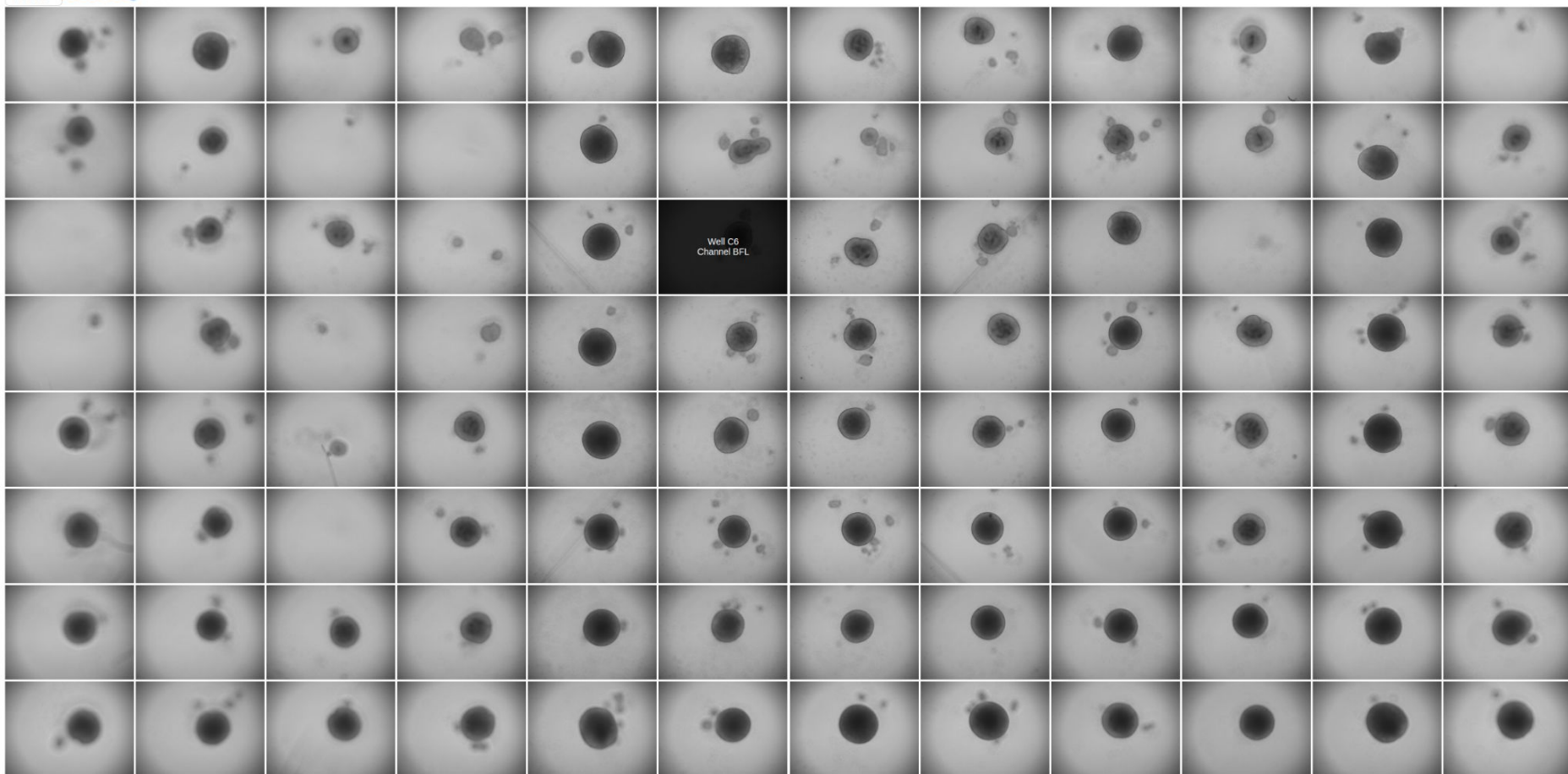




יציאה

אזור זה מכיל  
סכנת  
ביו-סכנה  
Authorized  
Personnel Only

QUMS





# What were the team's needs vs constraints?

## Needs

- Frontend - CRUD on experiments
- Backend - for frontend with types
- Database management
- AuthN / AuthZ
- Open-source software

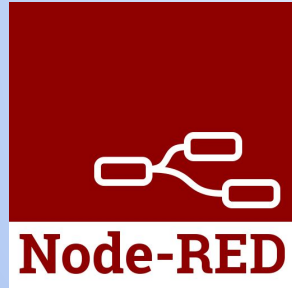
## Constraints

- Team focused on robotics
- On-premises server required
- Simple to learn for generalists

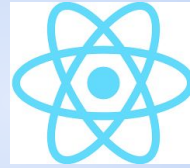
# What were our alternatives?

T3

## Low code tools



## Custom Stack



NEXT.JS



django

node



# What is Directus?





# What is the unique value proposition for Directus?



- Powerful admin panel in Vue.js - easy to learn
- Excellent plugin experience
- Simple deployment on top of Postgres
- Node.js backend for custom endpoints
- Type-friendly JavaScript SDK
- Supports LDAP/OIDC AuthN/AuthZ
- Handles files and images



# How was the getting started experience?



## Live Demo Time

[Click here to start a Github Codespace](#)

- Install/Run with docker compose
- Show a community plugin for Directus
- Create a new Vue plugin for Directus
- Show the Directus SDK

# Conclusion - Thanks for your attention!

Now is the time for comments, more questions, etc

github.com/barakplasma



We're hiring a Senior Data Scientist

<https://www.comeet.com/jobs/quris/17.000/data-scientist/E2.935>

Talk to me if you are looking for  
Junior Developers - [Appleseeds](#)

# Resources:

Code available at

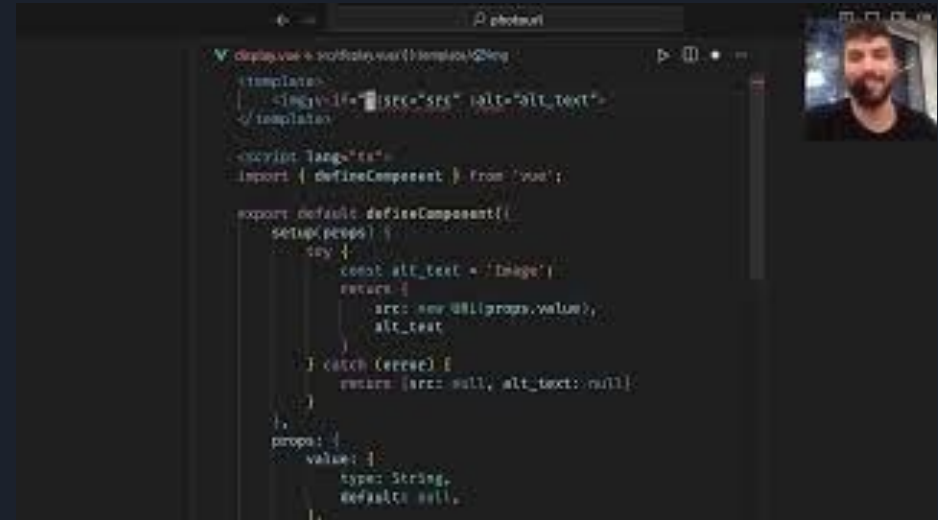
<https://github.com/barakplasma/raffler>

Slides available at Unleashing the Power of  
Directus

Photos and other [files on Google Drive](#)

Live coding video available at

<https://youtu.be/RXuW9Ro34I8>



```
display.vue < src/files/vue3/templates/2/Def
  <template>
    <img v-if="src" src="" alt="alt_text" />
  </template>

  <script lang="ts">
    import { defineComponent } from 'vue';

    export default defineComponent({
      setup(props) {
        try {
          const alt_text = 'Image';
          return {
            src: new URL(props.value),
            alt_text
          };
        } catch (error) {
          return { src: null, alt_text: null };
        }
      },
      props: {
        value: {
          type: String,
          default: null,
        },
      },
    });
```