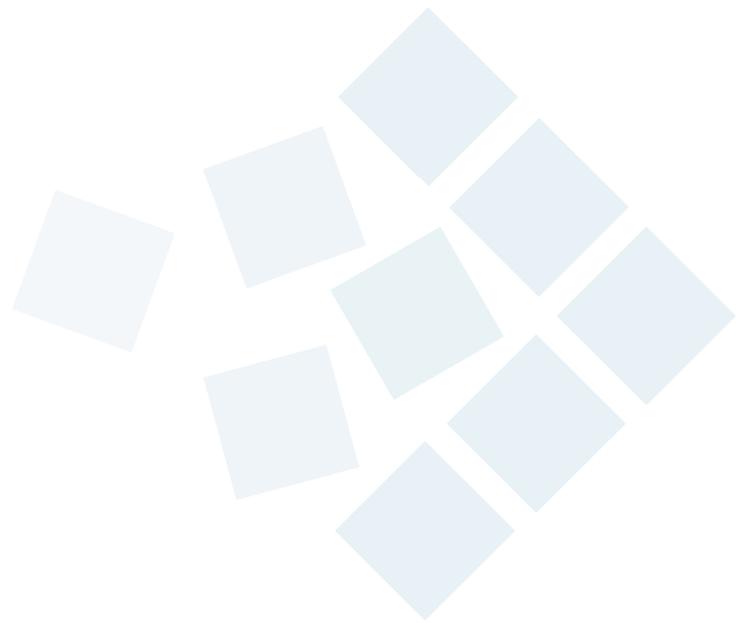




**Dolphio**  
Technologies

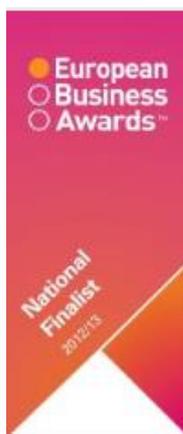
**DOLPHIO TECHNOLOGIES KFT**  
**INTRODUCTION FOR ALX GREECE**



## I. Introduction

Dolphio is a Hungarian owned IT service provider in the field of computer vision with more, than ten years of growing business experience.

Our company is an R&D center in the fields of software and hardware development, image processing, intelligent camera and surveillance systems and visitor- and passenger counting solutions.



# Deloitte.

## Technology Fast50

*'We always focus on our Clients' needs. They help us create real solutions. In turn, we help them lead their market.'*

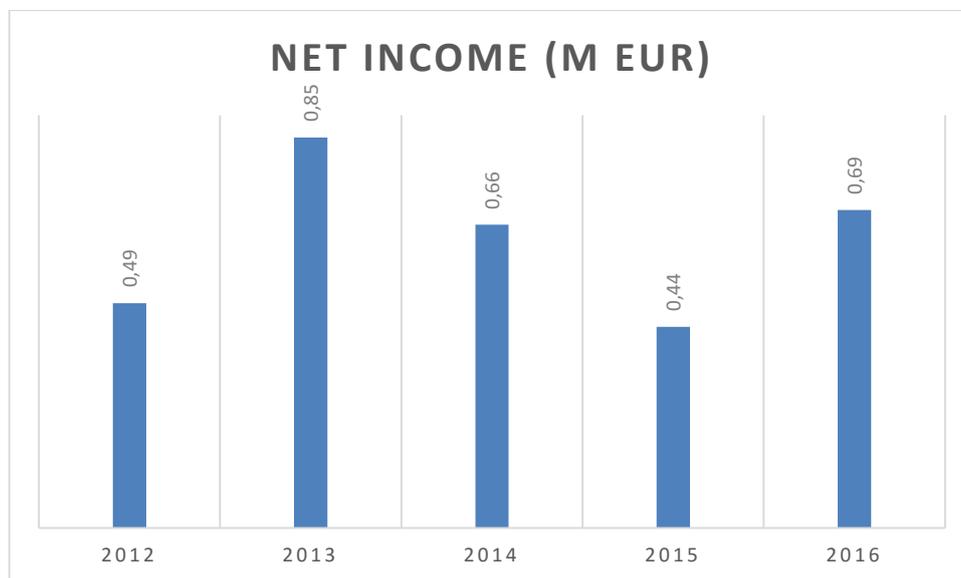
*János Rovnyai*  
*- CEO -*

## II. About us

### The company

- Dolphio Technologies Kft.
- Address: H-2016 Leányfalu, Móricz Zsigmond út 196
- VAT number: HU13233767
- [www.dolphio.hu](http://www.dolphio.hu)
- Established in 2004
- Number of employees: 12

### Net Income:



### **2016**

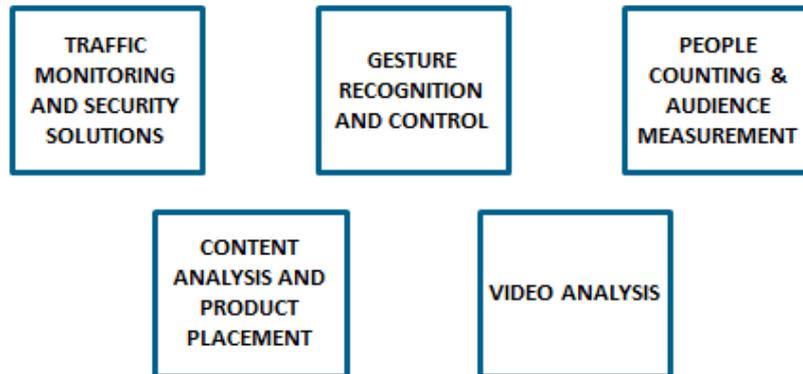
- Domestic: 0,62 M EUR
- Export: 0,07 M EUR

### Areas of activity

- Computer Vision
- Research & Development
- Full Service Software Development
- Web Crawling & Data Mining

## COMPUTER VISION

SPECIALIZED EXPERTISE AND SERVICES APPLIED IN DIFFERENT INDUSTRIES



### Portfolio

## COMPUTER VISION SOLUTIONS

SPECIALIZED EXPERTISE AND SERVICES APPLIED IN DIFFERENT INDUSTRIES



### **SpotNzoom – Intelligent Surveillance**

[www.spotnzoom.hu](http://www.spotnzoom.hu)

**SpotNzoom** is a unique solution for capturing high definition images of people and cars, with the help of box and PTZ cameras, integrated within security surveillance systems. Although surveillance systems overview larger areas, they are just incapable to record images proper for later identification, should it be people or vehicles. The reason behind this problem is the trade off between providing good insight into overall situations within a larger area and providing high-definition of images of faces and licence numbers. **SpotNzoom** ideally solves this problem. The fixed box cameras provide the overview the security team demands, whilst PTZ cameras automatically zoom on people and vehicles and taking high definition footages proper for later identification. **SpotNzoom's** software is also capable to classify detected objects and tell people from vehicles apart automatically. The user of **SpotNzoom** can also define rules within the surveillance areas like setting free-to-enter and prohibited zones, or priorities in detection (i.e. people first then vehicles). Moreover the system is capable to follow people all across the different zones they passing by, until the zooming cameras are directed onto other objects driven according to the priority settings.

**SpotNzoom** has more intelligent functions on traffic monitoring. It detects speeding, opposite direction driving and other traffic law infringements, such as crossing the line, parking in or driving through prohibited areas. Traffic law enforcement is usually a problem to local governments. Law infringement is generally detected and fined by their designated employees. **SpotNzoom** can help to reduce the amount of infringements via detecting all infringements automatically. Incomes deriving from fines also rise. Present day intelligent camera solutions use fixed-to-point cameras due to technological reasons. The view is fixed there and installation has to be highly precise. The cameras aimed to a square are unable to provide images in which licence numbers are identifiable; therefore, no fine follows the traffic law infringement. By shortening the distance between the surveillance area and the lense of the camera, images can be improved till licence plates are made recognizable. However, the camera loses the ability to overview the whole street so this trial ends up in super-targeted section control. **SpotNzoom** is the first solution that is capable to detect traffic law infringements in the range of hundreds of meters and creating automated reports including close up footages of the vehicles or people in order to support local governments effort to manage such cases of misdemeanors.

## CounterGuard – People Counting

[www.counterguard.hu](http://www.counterguard.hu)

**CounterGuard** is able to count people accurately, as they walk through entrances and exits even in the crowd. **CounterGuard** enables facility managers to know precisely how many people are there in-house at a time, and how historic visitors' data have been changing over time.

### At least there are three expected improvements applying CounterGuard:

1. Instantly improved counting accuracy.
2. Enabled simultaneous management and accurate periodic comparison of several entrances.
3. Real time monitoring and database building of seasonal and campaign-dependent customer increase.

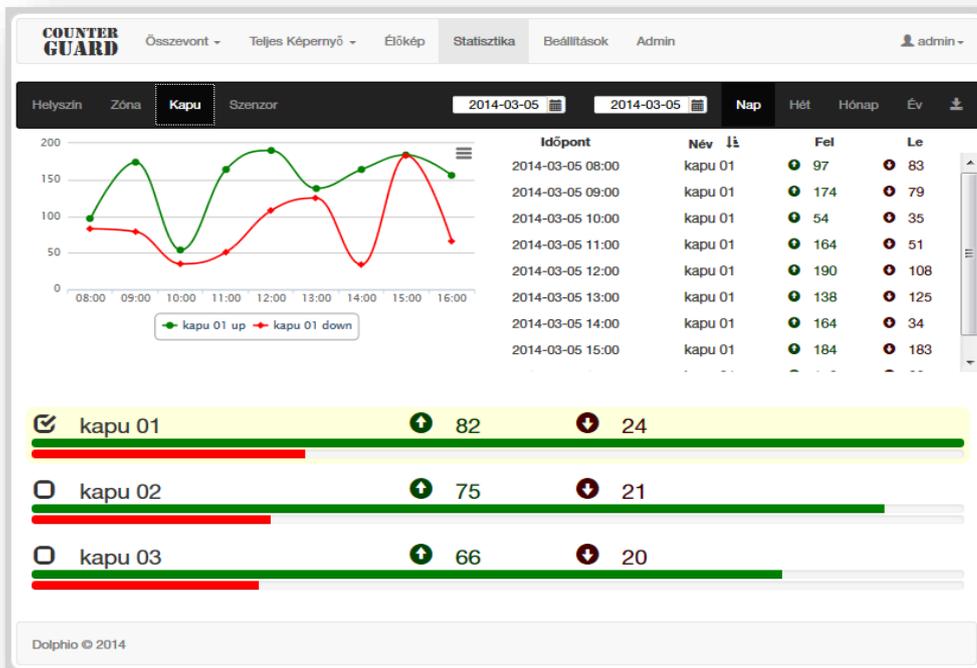
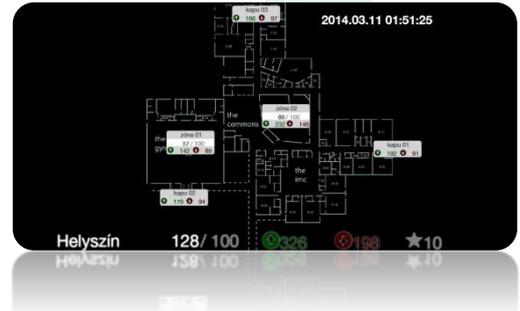
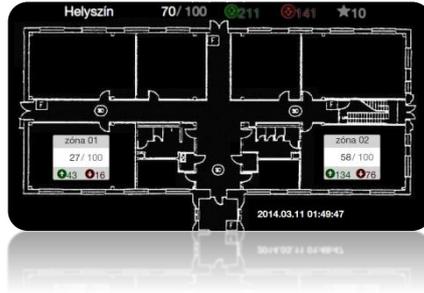
### Set up versions of CounterGuard:

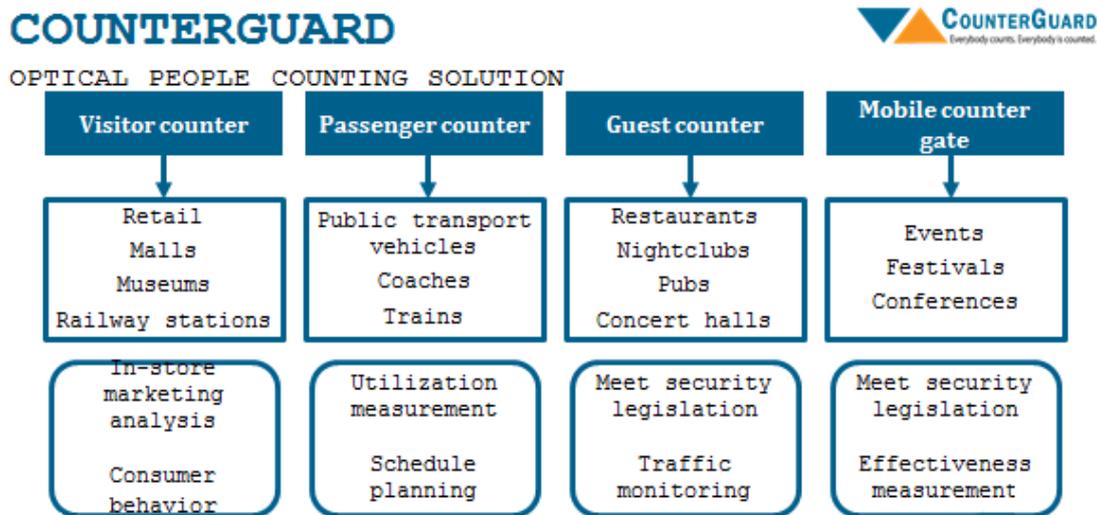


## User interface

**CounterGuard** uses its own real-time preview and user access that enables remote control by the customer. Visitors' data can be reported in several dimensions.

*Time dimensions: hourly, daily, weekly and monthly stats. Place dimensions: sensor, gate, zone, full store. Full export to excel, integrated graph export. Web interface can be accessed remotely even from your mobile phone. Multiple gates counting display on virtual maps.*





### SpeedHunter – Camera Based Speed Measurement

**SpeedHunter** is capable of measuring the speed of any vehicle in real time, and it sends automated and customizable alerts in case the speed limit has been exceeded.

The application can be used with existing, previously installed cameras so a new camera system is not necessary. Vehicle speed can be measured in up to three parallel lanes and from the recovered data, automated statistics can be produced.

- Speed measurement
- Real-time display
- 3-lane monitoring and measurement
- Traffic counting
- Automated Number Plate Recognition

### **Caralyzer - Camera Based Traffic Counting**

Intelligent camera-based traffic counting system for constant and occasional counting for all possible counting solution.

- Constant or occasional automated traffic counting
- Constant counting points with existing camera system
- Automated vehicle categorization in 3 different categories

### **Counting solutions**

- Roundabout counting
- Intersection counting
- Road traffic volume counting
- Cordon-point based counting

### **III. Plans for the Greek market**

- Pilot project with Dolphio solutions in 2018
- First projects in 2018 or 2019
- Contact with relevant distributors, partners, costumers
- First partner contracts in 2018

### **SpotnZoom, SpeedHunter, Caralyzer**

- Find a partner with experience of installing IP based camerasystems
- Find a partner with contacts to our potential costumers

### **Potential partners**

- CCTV integrators
- Local development companies, in the field of Intelligent Traffic Systems
- Service providers
- Security system integrators

### **Target costumers**

- Government
- Local governments
- Factories with large factory area

### **CounterGuard**

- Find a partner with experience of installing IP based camera systems
- Find a partner with contacts to our potential costumers

#### **Potential partners**

- Facility management companies
- CCTV system integrators
- Security system integrators
- Service providers

#### **Potential costumers**

- Facility management companies
- Shopping Malls
- Public Transport companies
- Clubs, bars
- Restaurants
- Festivals, event organisers