Smart & Sustainable Campus

ECS
Our Achievement in Edu

35+ devices with flexible and diverse form factor

23+ million students benefit from effective learning

70+ countries engaged in deploying project

- US: 51K
- Mexico: Over 1.9M
- Brazil: 1.3M
- Bolivia: 500K
- Argentina: 5M
- Venezuela: 6.5M
- Portugal: Over 3M
- Russia: 50K
- Georgia: 156K
- India: 50K
- Malaysia: 90K
- Kenya: 1M
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- Pakistan: 30K
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<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>1st CMPC E07 line up</td>
<td>• Step in education field with Intel</td>
</tr>
<tr>
<td>2007</td>
<td></td>
<td>• CMPC shipment 47K mostly generated by private sector</td>
</tr>
<tr>
<td>2008</td>
<td>2nd CMPC E09 line up</td>
<td>• 1st mega deal 560K to Portugal</td>
</tr>
<tr>
<td>2009</td>
<td></td>
<td>• Portugal tender 356K</td>
</tr>
<tr>
<td>2010</td>
<td>3rd CMPC E10 line up</td>
<td>• Deployment in Portugal school E10 x 250K • 1st VZ tender 450K</td>
</tr>
<tr>
<td>2011</td>
<td>4th CMPC E11 line up</td>
<td>• 1st Argentina tender total 1.3M</td>
</tr>
<tr>
<td>2012</td>
<td>1st Convertible CMPC EC10 line up</td>
<td>• VZ tender 1M(CMPC) • Argentina tender 1M(CMPC)</td>
</tr>
<tr>
<td>2013</td>
<td>1st Tablet TR10 line up</td>
<td>• VZ tender 1.2M(CMPC) • Argentina tender 1M (CMPC) • 100K 1st convertible CMPC launched in Bolivia</td>
</tr>
<tr>
<td>2014</td>
<td>1st 2-in-1 CMPC TL10EA line up</td>
<td>• VZ tender 2.2M (Tablet and CMPC) • Argentina tender 900K • MX720K (Tablet)</td>
</tr>
<tr>
<td>2015</td>
<td>1st 360° CMPC EG20BA line up</td>
<td>• MX tender 980K Tablet • Uruguay 125K Tablet • VZ 600K Tablet</td>
</tr>
<tr>
<td>2016</td>
<td>1st Ultra Thin &amp; Light 360° ED20EA Convertible Laptop</td>
<td>1st Durable Series Teacher PC SF20/SF40/SF50 from 11.6-inch to 15.6-inch • Kenya tender 1M Tablet • 50K Teacher Laptop</td>
</tr>
</tbody>
</table>
End-to-end smart campus solution

- **Devices**: Purpose Built device enabling e-learning
- **Learning**: empowering and inspiring teachers on learning effectively
- **Security**: ensuring student safety as well as all aspect
- **Management**: enhancing school and campus administration Resource & Energy
Smart Campus Portfolio

- Class assistance
- Library service
- Intelligence surveillance
- Attendance management system
- Student location status

Wearable device  BLE receiver  CMPC  Teacher device  IPCAM
Smart Campus infrastructure

Server

- Student Location Status System
- Class Assistance
- Intelligent Surveillance

Client

- CAMPLUS
  - Notification
  - Alert
  - Dashboard

- For students, teacher/principal, Parents

Web socket

- Synchronization

For students, teacher/principal, Parents

Web socket

- Beacon

For students

- My Square
  - Synchronization
  - Dashboard

Server

- Attendance Management
- Library Service System
Camplus – designed for different persona

- Attendance Management System
- Student Location Status System
- Intelligence Surveillance System
- Class Assistance
- Library Service System
Scenario – Attendance Management System

Via active notification to help teachers recognize those students needed more attention
- Time absence/lateness management
- Active notification for abnormal behavior through algorithm

With Attendance management system to monitor students’ daily attendance and days absent can help teachers to identify students with chronic absence issue.

Story: In the morning, the teacher Jessica can view the daily students’ attendance before class, which enables Jessica to monitor those students who have continuity of late or abnormal status
**Scenario - Student Location Status System**

- **Student Watch List**
  To set co-related alert conditions of who/ where/ how long

---

**Watch List**

1. Alice
2. Emmy

**Student Tracking**

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alice</td>
<td>Roof</td>
<td>10:12</td>
</tr>
<tr>
<td>Emmy</td>
<td>Roof</td>
<td>10:12</td>
</tr>
</tbody>
</table>
**Scenario - Student Location Status System**

**Blind spot alert**
Was generated and suggested through accumulated data analysis (time interval/event accumulation)

**Space Occupancy management**
Space occupancy rate generated through time/people count, for better energy management and equipment utilization

---

**Blind Spot Alert**

<table>
<thead>
<tr>
<th>Location</th>
<th>Reader</th>
<th>5/10</th>
<th>5/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>outdoor</td>
<td>Outdoor 23</td>
<td>2人</td>
<td>0人</td>
</tr>
<tr>
<td>Area</td>
<td>Park 111</td>
<td>6人</td>
<td>8人</td>
</tr>
</tbody>
</table>

**2017/5/10 ~ 5/11**

- **Parking Area**
  - **Access counting**
  - **5/11 hugely increase, need to watch out**
  - **Maximum Peak:** 5/11 PM 5:00 - 16:00
  - **Minimum Peak:** 5/10 AM 8:00 - 9:00
Scenario - Intelligence Surveillance

- **Emergency alert**
  Sent mandatorily by system, can only be closed after checking, eliminate false alarm, and report back.

### Alerts

- Unclosed events: 2
- Closed events: 8

<table>
<thead>
<tr>
<th>Event Time</th>
<th>District</th>
<th>District Detail</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/06 17:30</td>
<td>DeviceDetail2</td>
<td>ReaderDetail2</td>
<td>Sophi, 18:30 Resolve</td>
</tr>
<tr>
<td>06/08 12:40</td>
<td>DeviceDetail1</td>
<td>ReaderDetail1</td>
<td>Sophi, 15:30 Resolve</td>
</tr>
</tbody>
</table>
Scenario - Intelligence Surveillance

- BLE receiver and IP cam as complementary
To identify student’s last presence or seen location. Also to identify if student is still in school.

Administrator’s page:

**Watch list**

1 2  +

Alice Emmy

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Scenario - Class Assistance

- E-learning
  Real time scoring and effective teaching curriculum management

Teacher’s page:
Scenario - Class Assistance

- Dedicated school communication platform
- Dedicated class e-bulletin board

Eggs are definitely a symbol many of us relate to Easter. In a lot of households, it is a tradition to spend time coloring Easter eggs. Eggs, whether they are real or plastic, are hidden and participants are challenged to search for them. Easter baskets are filled with egg-shaped treats.

Here are some creative and fun projects and activities that revolve around Easter eggs:

**Easter eggs:**
Dyelg Easter Eggs  
Check out all of these creative ways you can dye your eggs.

**Easter Egg Crafts**
Browse through this collection of fun egg crafts that you can use to decorate or just to celebrate.

---

Which one is your favorite Easter egg?

Sophi  
2017/06/20 2:00 PM  
5 replies

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---

Amanda  
I did some. They come out beautifully.  
Today 3:30 PM

Lily  
It’s look great!!  
Today 4:30 PM

Mike  
How can @Amanda color your eggs naturally?  
6/19 12:30 PM

Jessie  
I like them in black.  
6/18 9:30 AM

Jame  
Ewww. @Jessie.  
6/18 8:30 AM
Scenario - Class Assistance

- Through competition and reward, to increase student’s adhesion with the watch.

Student’s page:

![Reward Icon]

![Husky Icon]

Keep up the pace!
Estimated active minutes 20 or step 1200;
you can upgrade the rank.

![Ranking]

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tiger</td>
<td>128,235</td>
</tr>
<tr>
<td>2</td>
<td>Amber</td>
<td>119,235</td>
</tr>
<tr>
<td>3</td>
<td>Kevin</td>
<td>116,894</td>
</tr>
<tr>
<td>4</td>
<td>Henry</td>
<td>112,743</td>
</tr>
<tr>
<td>5</td>
<td>Fabian</td>
<td>108,999</td>
</tr>
<tr>
<td>6</td>
<td>Rachel</td>
<td>99,083</td>
</tr>
<tr>
<td>7</td>
<td>You</td>
<td>85,549</td>
</tr>
</tbody>
</table>
Scenario - Class Assistance

- In school activity collection as personal footprints, can be school’s enroll highlights.
Scenario - Library Service System

• Adaptive reading
  Book recommending by system, based on student’s interested topics. Or teacher could assign for reading.
Camplus Solution Pack

Complete solution for fulfilling schools’ basic requirements, composed by Individual Units, Shared Units and Management System.

Individual Units:
- Student Device (Self equipped)
- Student Watch with My square application

Shared Units:
- BLE Receiver

Management System:
- Camplus middleware
- Camplus app for 4 different persona

Mini Sever:
- LIVA mini PC

Note: Requires Local SI to prepare Server, IP CAM, Internet access & Power electricity.
Suggested server spec (for 350 students) needs E3 processor, 32G ECC RAM, 2 x Giga Ethernet Lan, 2T storage.
Camplus Solution Pack

Camplus is designed for 4 default persona (Principal/Supervisor/Teacher/Student) in our campus scenarios, which including 2 APPs:

- **My Square APP** (for Mobile Android 5.1-7.0/Win 8-10 device)
- **Camplus APP** (for Mobile Android 5.1-6.0/Win 8-10 device & Web Browser)

Camplus and My square are bundled with ECS Classmate PC series as a whole set of solutions for student.

Note: For other OS version requirement, kindly discuss with account sales for the additional customization NRE.
Thank you