

**BUILD ON**  
**VIETNAM 2021**  
 BUILDING YOUR FUTURE

**INFO SESSION**

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## **Adaptive Learning Platform**

In an age of constrained budgets and overworked teachers, adaptive learning is bringing a spark back into the classroom and completely innovating the way education is approached. The difference is made when instructional content and methods are customized to individual students to guide/facilitate learning and mastering of new concepts. This new learning style is data-driven, and takes a non-linear approach to instruction. It's able to track student progress as it teaches, adjusting its instruction accordingly and providing teachers with important data that will help them be more effective educators.

**Challenge statement:** Researching and developing a adaptive learning platform for all level education systems in Vietnam.



CMC TECHNOLOGY & SOLUTION

Aspire to Inspire the Digital World

## **Classroom management system**

COVID-19 has changing the world, with digital transformation tendency, online classes have become essential for teachers and students.

Using AWS, develop an online classroom management system (students, lectures, exam questions) to give teachers more flexibility in management and improve teaching quality.



### **Using cloud computing to serve educational technology**

In Vietnam, educational technology is facing great change requirements. Change to serve new learning directions as well as to improve the quality of training and assessment of learners.

What ideas do you have to make education closer to learners? We have a few suggestions:

- Training for elementary level
- Training for the lower secondary level
- Training for high school level

Current subjects are mostly teachers teaching - speaking and students listening - absorbing. With your experience, is there a way to help learners absorb faster and more effectively the learned content, turning it into knowledge to apply in life?

You can choose a small topic such as using cloud computing technology to assess the student's concentration / understanding / level of application of knowledge to take action. support more effective training

The logo for Viettel, featuring the word "viettel" in a bold, lowercase, red sans-serif font.

Theo cách của bạn

## **Smart Factory**

Due to the rise of Covid 19 epidemic, manufacturing goods, especially necessities is becoming more and more important. However, manufacturers meet difficulties in controlling the demands, which causes shortage of raw inputs. In parallel with it, how to allocate workers effectively is also a burden. The question is how to tackle these problems?



**TECHCOMBANK**

### **Banking solution**

Vietnam economy has been growing for many years. As a result, the middle class population has also reached record number. Being a leading financial services institution, Techcombank has been at the forefront of helping its customers in building and preserving wealth. However, COVID-19 has affected Techcombank's ability to work intimately with our customers to deliver the best customer advisory and service experience.

**The challenge:** to propose a solution so our customers could be served in the most effective, easy, secured, and low cost way that is also in compliance with financial rules & regulations such as digital signature, OTP, etc.

**Additional info:** The challenge could be viewed from TCB's product and/or service perspectives. For product perspective, as an example, how could TCB explain to the bank's prospects the benefits of using TCB product(s) in a clear and easy to understand manner remotely, and having ability to capture key conversation items in that proposed solution to stay in compliance with financial rules & regulations? For service perspective, as an example, how could TCB assist the existing customers to perform certain financial transactions or answering customers questions remotely, and having ability to capture key actions in that proposed solution to stay in compliance with financial rules & regulations?

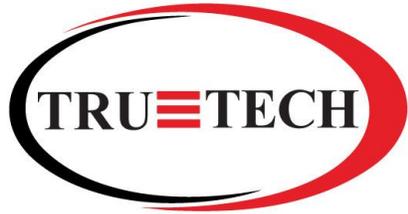


**Timo** is the newest entrant to the Financial scene as a digital bank that aims to help customers on their journey to financial freedom. In partnership with Viet Capital Bank, **Timo** promises a **personal** banking experience one would expect from other banks, but without the hassle of maintaining a huge balance.

Timo Goal Save is a powerful saving tool that helps manage your monthly budget, personal finance especially for students. Key highlights of this product include:

- **Visualize your goal:** Timo will calculate how much you need to put away to achieve it.
- **Earn interest monthly:** Enjoy max interest p.a. (as regulation) paid monthly!
- **Reach your goal easier:** set up auto contributions from Timo Spend account weekly/monthly so you don't forget about it

**Challenge statement:** to promote student financial literacy, you will develop a comprehensive product development plan (including detailed product concept, UI/UX initiatives) and marketing strategy to make Goal Save as the top solution for students.



## Urban management system

In recent years, Vietnam has experienced explosive growth in many aspects, including the speed of urbanization. This process entails changes that are diverse, complex, reciprocal, and quite fast. Capturing these changes to quickly and accurately manage the land fund at a reasonable cost is one of the fundamental duties of the urban management authorities.

For example: Detect the areas that are changed in terms of land use type, from green park land into housing / or water surface into housing / or agriculture into housing, etc, then cross-check with the city's land use plan to detect the violation. The results should show: What is the type of these changes? How many in terms of area (sq m<sup>2</sup>/ sq hecta)? and where?

**Challenge statement:** Provide solutions / tools to detect land-use changes quickly and accurately to support urban management in the specific conditions of a smart city campaign of Vietnam.



### **Encourage households to use mGreen app to sort and collect recyclables (paper, plastic, metal)**

mGreen mobile application: Connect waste owners with collectors. Residents earn points according to the volume of recyclable waste that has been classified and accumulated. Points can be exchanged for consumption and shopping.

#### **Situation – Challenges:**

- The Law on Environmental Protection 2020 requires 100% households and families to separate waste at source from January 1, 2022, but lacks sanctions and mechanisms for all residents to participate. Specifically, as the sanitation fee is low (VND 8,000/person/month) and the waste generator can dispose of waste indiscriminately without being penalized, waste sorting is not an urgent need of households.
- Asynchronous collection of post-sorting activities: Government has not organized daily collections of recyclables after sorting.
- The amount of household's recyclable waste is small and fragmented, leading to sanitation workers having no motivation to collect door-to-door everyday, while waste owners don't want to store recyclables in their house since recyclable waste is bulky and consumes a lot of storage space.
- Difficulties in establishing centralized recycling collection points (greenhouses), including requirements of government approval, green house locations far from residential areas, lack of personnel to maintain and recycle through mGreen mobile app at Greenhouse.
- The market only buys high-value recyclables, while household waste includes a variety of low-value recyclables (PS foam boxes, plastic packaging, etc.).
- More information at: <https://mgreen.vn/>



## Mask detection

Not wearing masks is one of main reasons for a surge in COVID cases around the world. Therefore, there is an urgent need of a face detection technology to identify who wear masks and who do not.

**Statement:** Create a solution that can record the travel and contact schedules of people without masks within the range of surveillance cameras in a chronological order. In the future, it will be easy to identify employees who do not wear tags or unauthorized persons entering a building.



Bright Minds, Brilliant Solutions

## **Healthcare / Virtual Health**

From the [TripleTree](#) report, with telehealth as an important component of care delivery in a post-COVID-19 world, providers, payers, and employers are evaluating comprehensive virtual care strategies and rapidly moving into a new era of virtual health. The sharp rise in demand for virtual health technologies is also accompanied by longer-term implications across the industry, including an acceleration of long-standing home-based care delivery, value-based care, and consumerism trends. While these shifts and trends were present and occurring pre-pandemic, COVID-19 was the catalyzing event that accelerated change across the ecosystem.

TripleTree marks this upheaval with a positive note: “Virtual health has fueled innovation and investment with an eye towards creating a more convenient, cost-effective, and high-quality healthcare system.”

Challenge Statement: Standing on the ongoing pressure to tackle this new era in virtual care, how can we allow for a more efficient and effective virtual health solution via the use of cloud-based services?

*TripleTree Report link: <https://www.triple-tree.com/TripleTree/media/Research/TripleTree-A-New-Era-of-Virtual-Health.pdf>*