



CBS JAPAN

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COMPANY  
PROFILE

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CBSJAPAN.COM

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# INTRODUCTION

## 15 years of experience in the global business market

Convenient Business Solutions Inc. (CBS) is a Canadian company located in the west of Canada in Edmonton, Alberta. CBS was founded in 2006 specializing in optics and photonics software sales, support and training, customized software solutions, and online management systems. The Japanese branch office located in Tokyo was also founded in 2006. We opened an additional branch office in Dublin, Ireland in 2020.

CBS Japan is the exclusive Japanese and Korean distributor for Photon Engineering's FRED software and the exclusive Japanese distributor for Photon Design's software. CBS Japan provides basic, advanced and customized training courses for using optical engineering software.

Our highly experienced multilingual team has worked across a wide range of industries and have experience providing design and analysis services across the

whole R&D process - from evaluating the initial proof of concepts through to debugging prototype performance, and stray light analysis of large optical systems.

Key areas of expertise are in imaging system stray light analysis, lightpipe design, design of photonic components, and laser to fiber coupling systems.

- Optical System Design
- Imaging and Non-Imaging Systems
- Stray Light Analysis
- Coherent Beam Propagation

In addition, our people-first approach to building online management solutions gives users the freedom to work when and where they want; and provide all the necessary tools and analyses needed for better communication, collaboration, efficiency, and productivity. From properties and workflows, to smart cities, our management tools create a better sense of community.





# MESSAGE FROM THE CEO

With years of experience in industries such as optical engineering, smart city technology, property management, accounting, and software development, Convenient Business Solutions Inc. (CBS) was founded in 2006 in Canada, Japan and Ireland. It soon became the leading provider of optical engineering software and consulting and a prominent member of the global business community. CBS core values focus on creating smarter technology through enhanced communication and customer support.

As CEO, I apply my unique management style and business experience to ensure our customers receive the best support possible. Backed by a dedicated and efficient multilingual team, our potential is endless.

Even though we are originally a foreign company, we have 15 years of extensive experience in the Japanese and Asian business market. And our years of experience in optics, as well as our long relationship with Photon Engineering and Photon Design, makes us the natural choice as the exclusive distributor of FRED and Photon Design Optical Engineering Software in Canada, Japan and Europe.

*Audrey Akiko Charles*

オードリー・アキコ・チャールズ  
CEO





## OVERVIEW

**COMPANY NAME**  
**NAME (KANA)**  
**DBA (JP)**

Convenient Business Solutions Inc.  
コンビニエント ビジネス ソリューションズ  
CBS Japan (cbsjapan.com)  
@Assist (atassist.com)

**EST. DATE (CA)**

May 3, 2006

**EST. DATE (JP)**

May 29, 2006

**ADDRESS (CA)**

2219 Millbourne Rd West NW, Edmonton, AB, T6K 0Y3 Canada

**CONTACT (CA)**

Phone: +1 (780) 641-0850

**ADDRESS (JP)**

〒135-0063 Tokyo-to, Koto-ku, Ariake 3-7-26, Ariake Frontier  
Bldg Tower B, 9th Floor

**CONTACT (JP)**

Phone: 03-5530-9022

**CEO**

Audrey Akiko Charles

**BANK (CA)**

Canadian Western Bank

**BANK (JP)**

Mitsubishi Tokyo UFJ

**INDUSTRIES**

Optical Engineering Sales, Optical Engineering Consulting &  
Support, Smart City Management, Real Estate Management,  
Workflow Management



## HISTORY

**MAY 2006**

Head Office Founded in Canada  
Branch Office Founded in Japan  
Began Optical Engineering Sales Services  
Began Optical Engineering Consulting & Support Services  
Began Operating as CBS Japan (Optical Engineering) in Japan

**OCT 2007**

Became Exclusive Photon Design Distributor in Canada

**SEP 2009**

Began Operating as @Assist (Management Software) Worldwide

**JUN 2010**

Became Exclusive FRED Distributor in Canada

**NOV 2010**

Expanded @Assist Operations  
Expanded Canada Operations

**SEP 2015**

@Assist Sugu (Real Estate Management) Software Release

**APR 2016**

@Assist Sugu (Real Estate Management) Software Global Release

**JUL 2017**

@Assist Toki (Workflow Management) Software Release

**APR 2018**

Subsidiary Founded in Canada

**NOV 2018**

@Assist Tomo (Smart City Management) Software Global Release

**JAN 2019**

@Assist Toki (Workflow Management) Software Global Release

**APR 2019**

Expanded Japan Operations

**JAN 2020**

Expanded CBS Japan Operations

**FEB 2020**

Became Exclusive FRED Distributor in Japan

Moved Head Office Location in Canada

Became Exclusive Photon Design Distributor in Japan





**JUL 2020**

Branch Office Founded in Ireland  
Began Operating as CBS Europe  
Became Exclusive FRED Distributor in Germany  
Became Exclusive FRED Distributor in France  
Became Exclusive FRED Distributor in Italy  
Became Exclusive FRED Distributor in Austria  
Became Exclusive FRED Distributor in Ireland  
Became Exclusive FRED Distributor in Switzerland  
Expanded @Assist Operations

**DEC 2020**

Expanded Europe Operations  
Expanded CBS Europe Operations  
Became Exclusive FRED Distributor in Europe (excluding Spain, Portugal and BeNeLux)

**JAN 2021**

Expanded Japan Operations

**MAR 2021**

Became Exclusive FRED Distributor in Korea

## ABOUT THE COMPANY



CBS Japan provides design and analysis services across the whole R&D process - from evaluating the initial proof of concepts through to debugging prototype performance, and stray light analysis of large optical systems.

CBS Japan is a registered Japan branch of Convenient Business Solutions Inc. (CBS), headquartered in Canada.

CBS and CBS Japan were both founded in 2006.



Founded in 1997 Photon Engineering is an optical engineering software and consulting firm, and are the creators of industry-leading raytracing software FRED.

CBS Japan is the exclusive distributor of FRED Software in Japan and Korea.



Photon Design Ltd, founded in Oxford, UK in 1992, provides the world's leading software to the photonics industry including tools for modeling both active and passive photonics components, and optical circuits.

CBS Japan is the exclusive distributor of Photon Design Software in Japan.



# ABOUT FRED

## WHAT IS FRED?

FRED Optical Engineering Software is a globally recognized optomechanical raytracing software used by companies, government, and universities in the development of optical systems used for straylight analysis, laser systems, LED / illumination system design and imaging systems. FRED has an easy to use CAD-like interface and is the most flexible raytracing software.

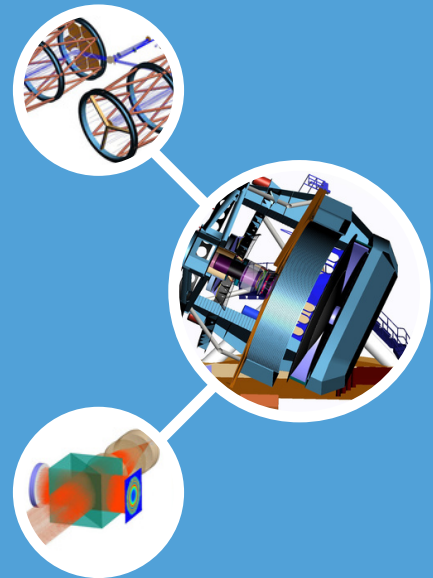
**FRED**<sup>MPC</sup>

The latest version of FRED - FREDmpc is the only optical engineering software in the world that performs calculations using GPUs. The analysis processing speed of FREDmpc can be 100 to 500 times faster than the analysis processing speed using a conventional multi-threaded CPU.

FREDmpc is currently the only fully functional, general purpose optical engineering software that uses GPUs.

## FEATURE OVERVIEW

- GPU raytrace - over 100x faster than multi-threaded CPU raytrace calculations
- 3D graphical interface for model rendering, construction and verification
- Import lens data from lens design software such as Zemax, CODE V, OSLO
- Import and export 3D CAD files such as IGES, STEP, OBJ, etc.
- Non-sequential and sequential ray tracing
- Latest catalog data such (glasses, optical components, etc.)
- Coherent Beam propagation (laser, interference, diffraction, polarization)
- Multivariable optimizer
- Tolerancing analysis
- Multithreading using up to 63 threads
- Distributed calculation function on unlimited PCs
- Built-in BASIC Scripting

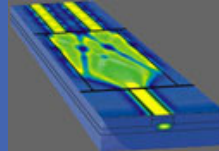


# ABOUT PHOTON DESIGN



## FIMMWAVE

Mode solvers for complex waveguide and fiber structures.



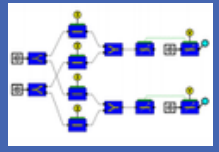
## FIMMPROP

The original EME (Eigenmode Expansion Method) software for fast and accurate analysis of optical waveguides and optical fibers.



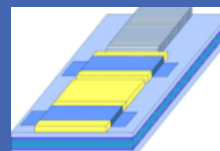
## OMNISIM

Photonics simulation software that includes FDTD, FETD, and RCWA engines for designing complex photonic devices and grating structures.



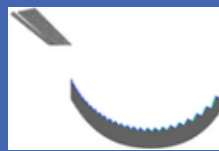
## PICWAVE

Software for designing optical circuits (PIC) including active device (semiconductor laser / SOA) modeling.



## HAROLD

Hetero-structure simulator for modeling Fabry-Perot quantum well lasers.



## EPIPPROP

The world's first Echelle grating and AWC design software.

## ABOUT @ASSIST



@Assist's people-first approach to software solutions makes it easy for everyone to connect, communicate and collaborate. From properties to smart cities, our management tools create a better sense of community.

@Assist solutions allow users the freedom to work when and where they want; and provide all the necessary tools and analyses needed for better communication, collaboration, efficiency, and productivity.

@Assist wants to be Japan's trusted online link between properties, people, IoT, and smart infrastructure. To provide Japan with the sustainable technology needed to manage properties and smart cities successfully.

### SUGU

@Assist Sugu is an online real estate management cloud-based solution helps you organize your properties, tenants, paperwork and finances, all in one location. Our flexible technology gives you the freedom and responsibility to work from any location and on any device to accommodate your busy lifestyle. Sugu provides a platform where both property managers and tenants can connect, communicate in their preferred language and collaborate to foster a mutually respectful relationship.

### TOKI

@Assist Toki is an online workflow management cloud-based solution that provides you with tools you need to increase productivity and revenue, collaborate with your team and reduce time and money spent on admin tasks. Toki lets you enhance and oversee your business' daily operations by managing your clients, team members, time, invoices, tasks, reports, files, expenses, finances, payments and more. Toki helps you visualize productivity to see where your business stands at a glance.

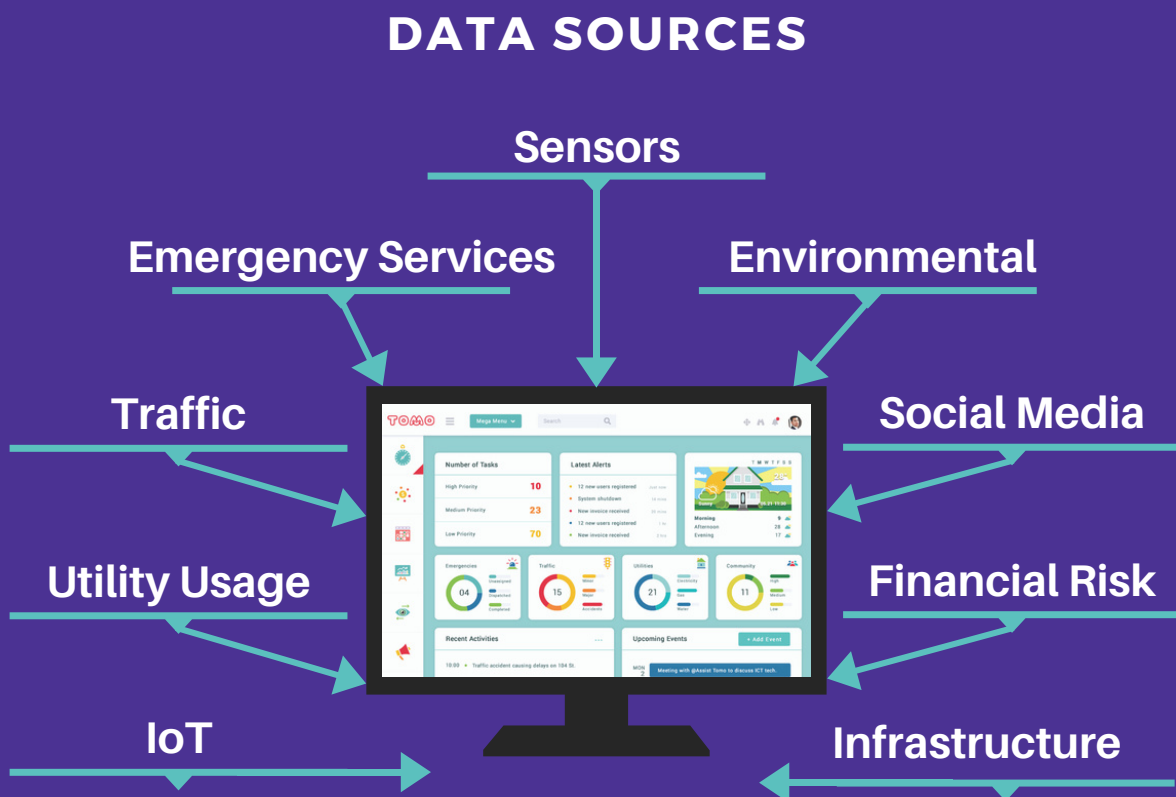


# ABOUT TOMO



@Assist Tomo is an online smart city management cloud-based solution that helps city departments manage traffic congestion, the smart grid, plan for weather-based events, handle emergency services, etc. It also helps city planners compile department data to make smarter decisions for the growth and prosperity of the city. Features include real estate management, communication, real time alerts, data handling and reporting, analytics and predictive analytics, and payments. Once connected to a city, Tomo's easy API allows for further integrations to meet each city's specific needs.

Tomo ensures residents have the freedom to choose the technology they want to use, understand where their information is being sent and how it's being used. Residents are able to take advantage of Tomo in their own homes to ensure they are making efficient cost-saving choices and can use Tomo to improve their daily routine, find a parking spot, be alerted of an emergency in the area, etc.





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