

FORTRESS INNOVATION

Fortress Innovation, an affiliate of Kyobo Life Insurance, provides optimal solutions and consulting services backed by its solid experience in building financial systems.

We strive to become the global No. 1 insurance actuarial platform through continuous technological development.

SOLUTION

Introducing InnoLinc and ExcelBooster, designed to provide fast processing through innovative and fast data analysis.

InnoLinc
WHAT YOU LINK IS WHAT YOU GET

A parallel computing platform optimized for insurance industry



1

2



ExcelBooster

A solution that provides convenient environment based on MS Excel

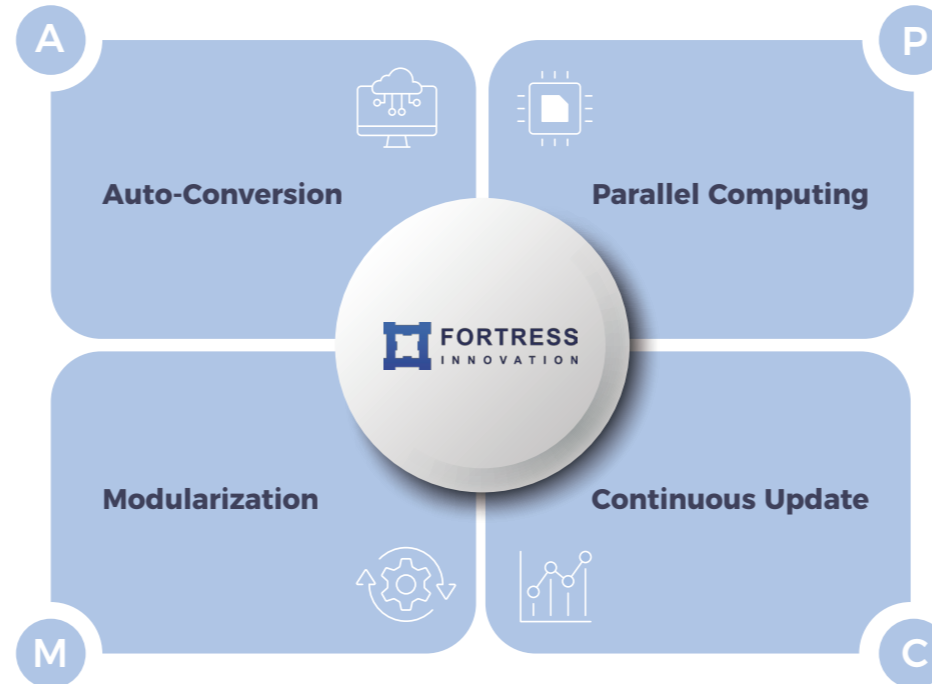
Reduces work time,
accelerates decision-making

TIME SAVING.



Experience our solution by watching videos.

Reduces the work time, accelerates the decision-making
Less time, Faster decisions



www.fortinno.com

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Visit website



Solve problems
in innovative ways

PROBLEM SOLVING

Fortress Innovation provides innovative solutions by focusing on problems in business practices.

The traditional solutions used in actuarial insurance industry are complex and fail to deliver fast processing speeds.

Fortress Innovation recognized the need for solutions to address the problems occurring in business practices, with a focus on enabling more efficient business operations and decision-making.

CLIENT

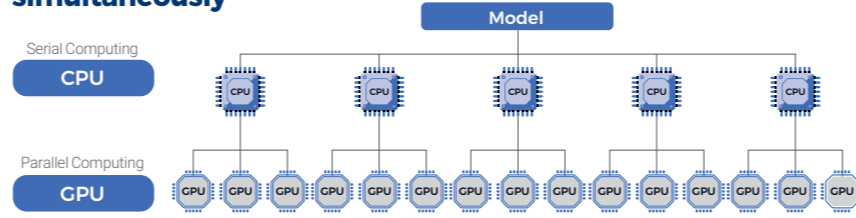
We have been continuously implementing diverse innovative projects with various insurance agencies.



InnoLinc | Solution

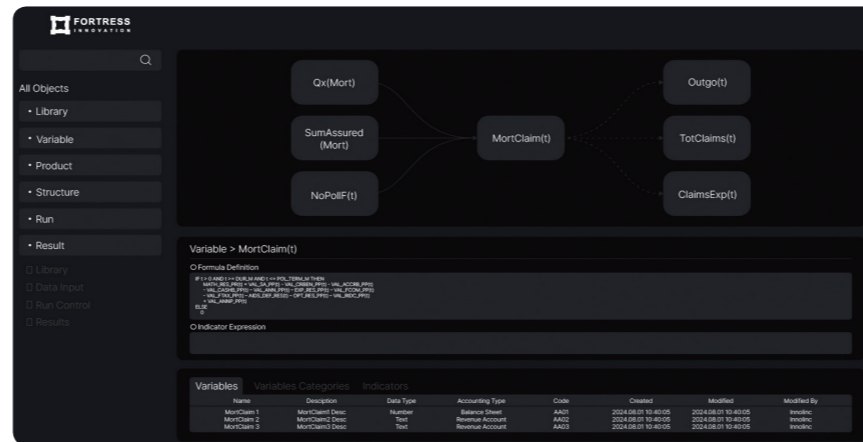
InnoLinc is the best parallel processing platform which can be applied in insurance industry. Users can understand the entire structure easily through our program structure module's diagram.

Offers strong computing capability using both CPU and GPU simultaneously

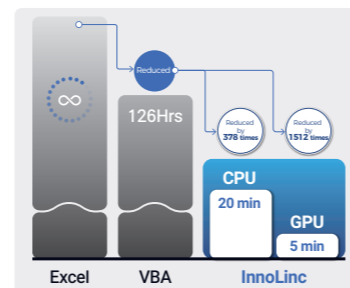


Expands modeling convenience through diagrammatic presentation

Enables a visual, detailed understanding of the flow of data and models at a glance. Also, it is easy for program development and modification along with flexibility and expandability since multiple users can work simultaneously through a rule-based system structure.



Improved processing speed up to 1,512 times compared to existing programs



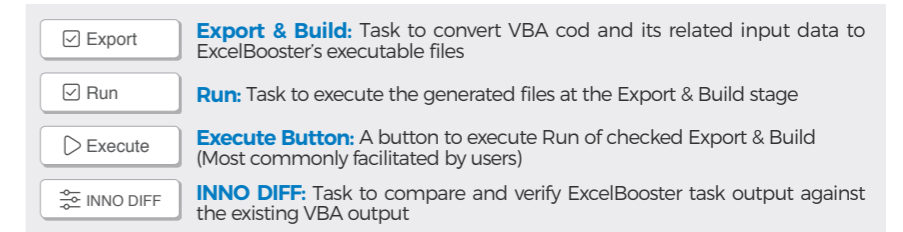
InnoLinc dramatically reduces computing time compared to existing actuarial software and VBA programs. Furthermore, it provides a better experience with higher efficiency when the CPU and GPU are used together at certain stages of the computing process.

ExcelBooster | Solution

“ExcelBooster” of Fortress Innovation provides user interface since implemented as a revamped menu in MS Excel. Additionally, it is software with exceptional processing speed faster than ever, to improve task efficiency without any modifications to client’s existing VBA.

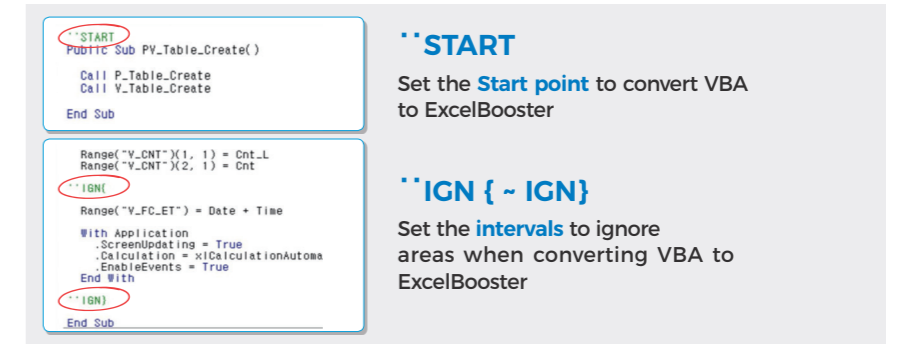
Simple and easy-to-follow structure as an add-in in MS Excel

ExcelBooster is accessible as a menu in MS Excel allowing users to work with a Run button without additional training.



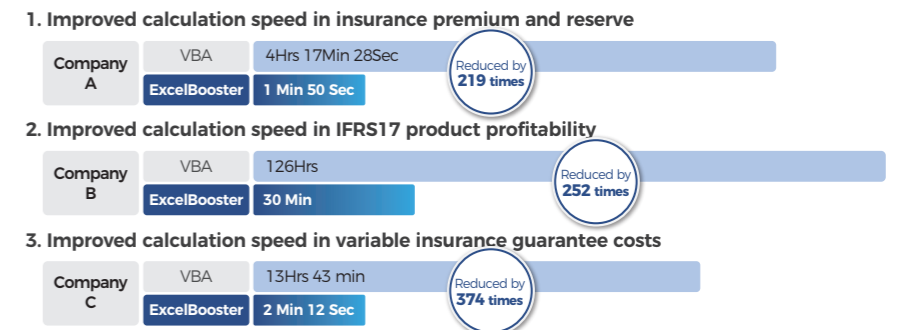
Simple conversion without any VBA modifications

Add just 2 commands to easily run ExcelBooster without any modifications to the existing VBA code



The processing speed compared to the existing program improved by up to 374 times

ExcelBooster achieved the following improvements in speed within actual insurance sector





Fortress Innovation, an affiliate of Kyobo Life Group, provides the optimal insurance solution and consulting service based on extensive experience in building financial systems.

We are the only insurance actuarial solution provider in Korea, and we continuously develop products, striving to become the world's No.1 actuarial insurance platform.

CASE STUDY

Fortress Innovation has made significant research advancements and achievements including the followings as we are currently working together with several insurance companies.

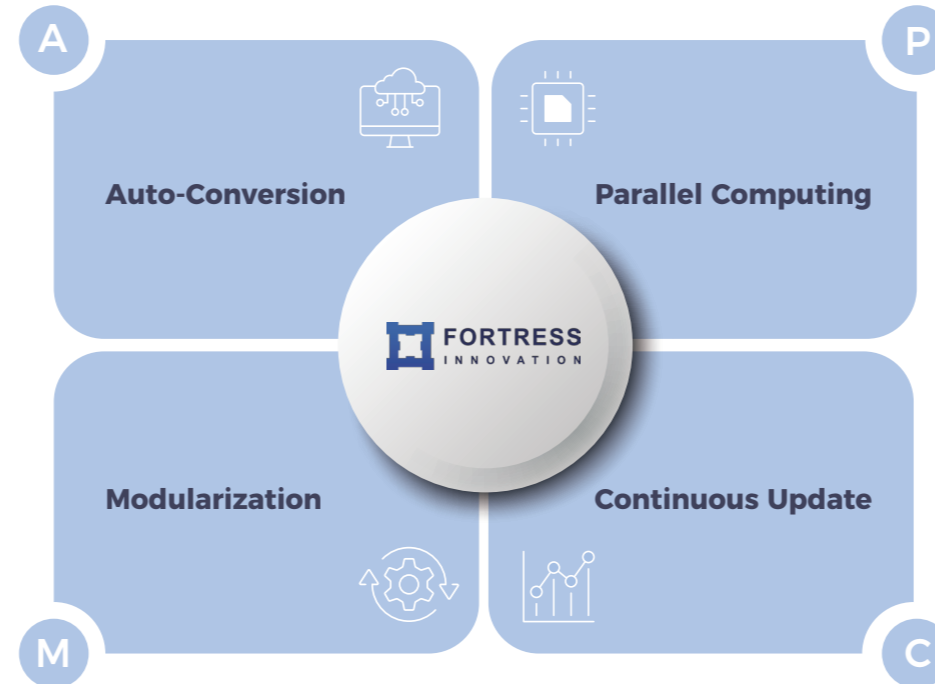


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Excel[®]Booster[®]

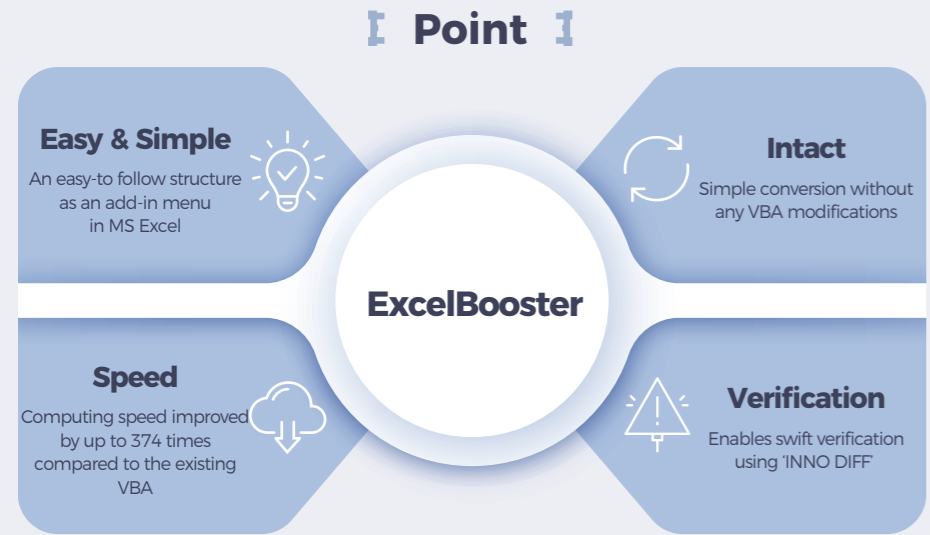
Solution that offers significant improvements in speed
 as an add-in menu on MS Excel

Solve problems
in innovative ways

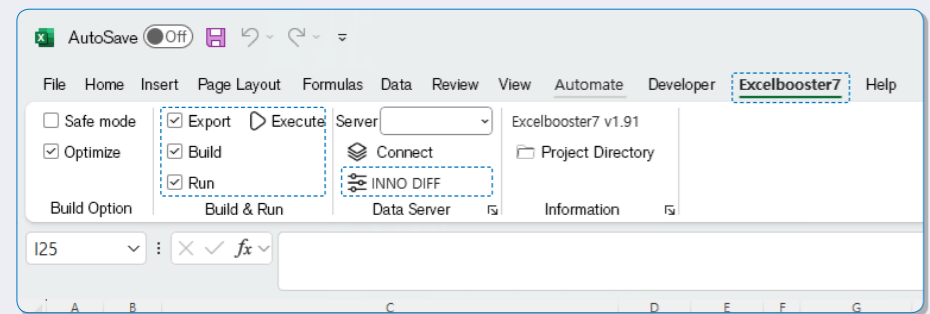
ExcelBooster | Solution

ExcelBooster of Fortress Innovation provides a convenient user interface(UI) as implemented as a revamped menu to MS Excel.

Additionally, it is software with exceptional processing speed, faster than ever to improve task efficiency without any modifications to client's existing VBA.



ExcelBooster in Excel



Point1. Easy & Simple

An easy-to-follow structure as an add-in menu in MS Excel

ExcelBooster is accessible as a menu in MS Excel allowing users to work with a Run button with no additional training.

- Export **Export & Build**
Task to convert VBA cod and its related input data to ExcelBooster's executable files
- Run **Run**
Task to execute the generated files at the Export & Build stage
- Execute **Execute Button**
A button to execute Run of checked Export & Build (Most commonly facilitated by users)
- INNO DIFF **INNO DIFF**
Task to compare and verify ExcelBooster task output against the existing VBA output

Point2. Intact

Simple conversion without any VBA modifications

Add just 2 commands to easily run ExcelBooster without any modifications in the existing VBA code.

```

** START
Public Sub PV_Table_Create()
    Call P_Table_Create
    Call V_Table_Create
End Sub

Range("V_CNT")(1, 1) = Cnt_L
Range("V_CNT")(2, 1) = Cnt

** IGN(
Range("V_FC_ET") = Date + Time

With Application
    .ScreenUpdating = True
    .Calculation = xlCalculationAutoma
    .EnableEvents = True
End With

** IGN)
End Sub
    
```

**** START**
Set the **Start point** to convert VBA to ExcelBooster

**** IGN { ~ IGN}**
Set the **intervals** to ignore areas when converting VBA to ExcelBooster

Point3. Speed

The execution speed compared to the existing VBA program improved by up to 374 times

ExcelBooster reduced calculation time by 219 times in computing insurance premium and reserve, 252 times in IFRS17 product profitability and 374 times in variable insurance guarantee costs in comparison with the current VBA output.

1. Improved calculation speed in insurance premium and reserve



2. Improved calculation speed in IFRS17 product profitability



3. Improved calculation speed in variable insurance guarantee costs



Point4. Verification

Enables swift verification using 'INNO DIFF'

Enables swift verification of outputs from existing VBA and ExcelBooster using the simple 'INNO DIFF' function after the calculations are completed.

- File1 Open**
Select **standard data** : Set existing client's VBA result output files
- File2 Open**
Select **comparison data** : Set ExcelBooster output files
- Execute Verification**
Verification proceeds with a click of DIFF button
- Confirm verification output**
Complete verification with values matching "Total diff : 0"