How to support Customers?

STRADVISION has a couple of simulators and tools to support on R-Car.

**Input (CNN model)**
- SVNet

**Parameters**
- R-Car HW, its structure, spec
- Renesas V3M
- Renesas V3H
- FPS, camera resolution
- Detection range, ROI
- Memory B/W
- Computing device usage
- The size of binary
- Power consumption
- Etc.

**STRADVISION Optimization**
- **Network optimization**
  - Pruning/Compression
  - Split/Merge of sub-layers
  - Transformation
    - Ex. 3x3 conv → 5x5 conv
    - FC Layer → 1xk conv
- **Code generation**
  - Host code in C/C++
  - Compute primitive machine code
  - CL (Command List) for R-car platform
- **CNN engine**
  - Host framework, Pipeline optimization (from image input to meta data of detection/recognition results)

**System Optimization**
- Hotspot analysis
- Computation offloading
- DMA/internal memory optimization

**Output**
- SROL: Optimized CNN engine running on R-Car HW meeting target spec/performance

**Off-Line Simulator**
- Bit Exact with Output of R-Car HW

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**SROL**
- StradvisionRenesas Object Logging
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