

The Empty House Dynamic Data-Driven Application System

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A Down to Earth DDDAS Example: The Empty House DDDAS

- ◆ **Sensors along driveway and near house**
- ◆ **Distinguish between animals, people, and vehicles**
- ◆ **Recognize regular delivery people**
 - Possibly turn on lights
 - Greet them with prerecorded voices and messages
 - Direct receivables to box by door
 - Move contents of box indoors regularly
- ◆ **Tell sales critters and religious nuts to go away**
- ◆ **Feed cats, put out garbage on correct days, etc.**
- ◆ **Give a complete lived in appearance to house**
- ◆ ***Two way secure communication with residents***

Some Possible Extensions

◆ Military

- Replace cats with our troops
- Replace sales critters with hostile troops
- Religious nuts still a threat

◆ Far Out Extensions

- K-12 School Security
 - ◆ Difficult due to number of teachers and students
- HR Departments
 - ◆ Deal with new hires and employee problems
- Walk in IT Help Desks
 - ◆ Routine problems versus cranks
- Emergency Room Walk Ins