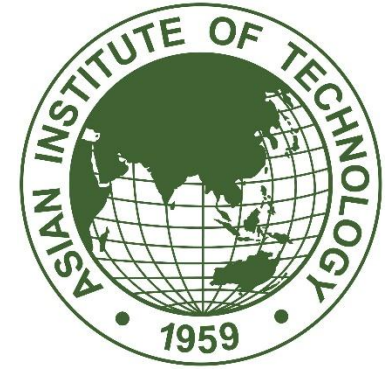


SmartFeed: Putting Cameras to Work

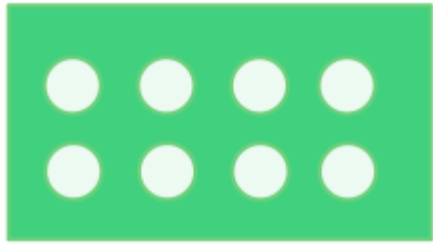


Dr. Matthew Dailey, Dr. Mongkol Ekpanyapong

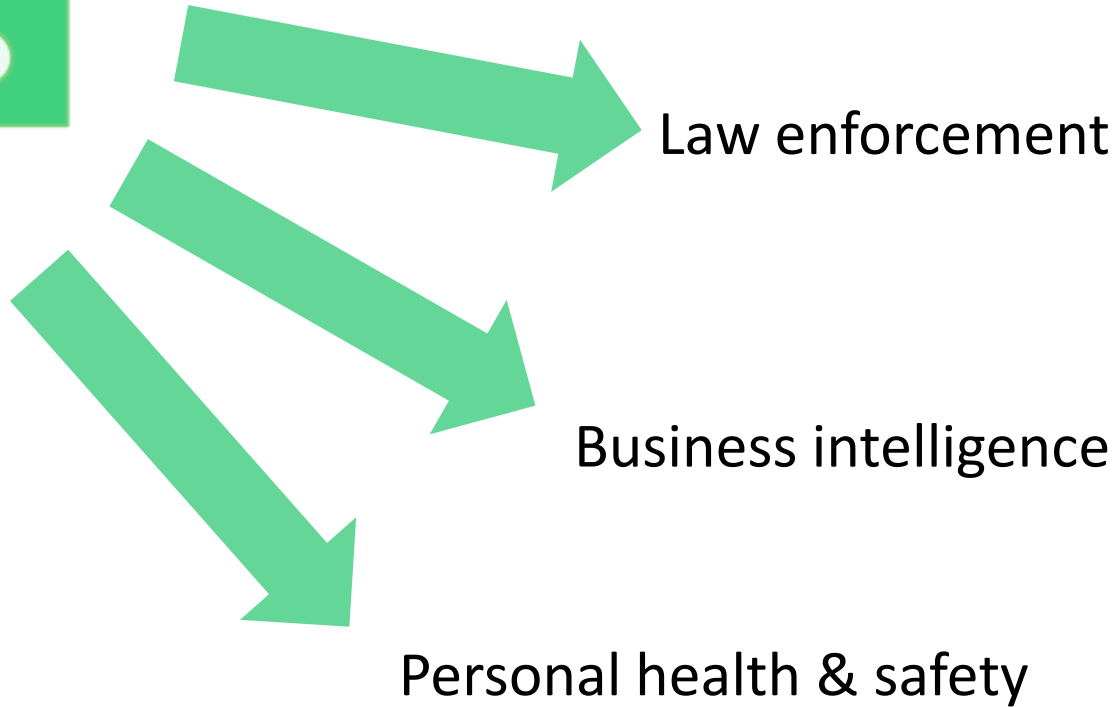
Computer Science And Information Management

Industrial Systems Engineering

Asian Institute of Technology



Cameras

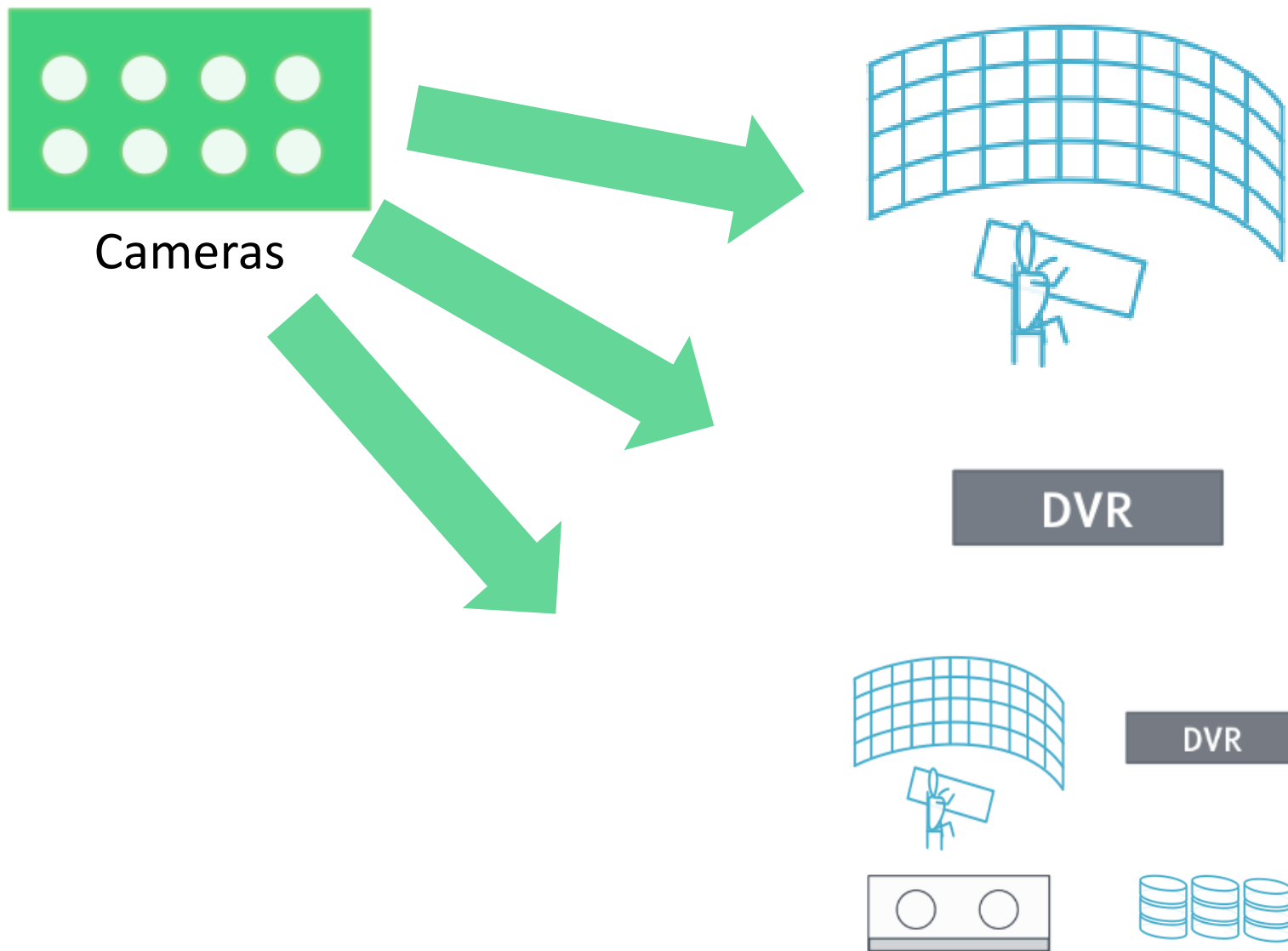


Law enforcement

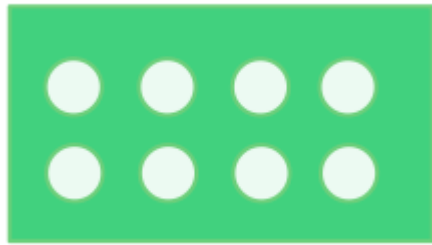
Business intelligence

Personal health & safety

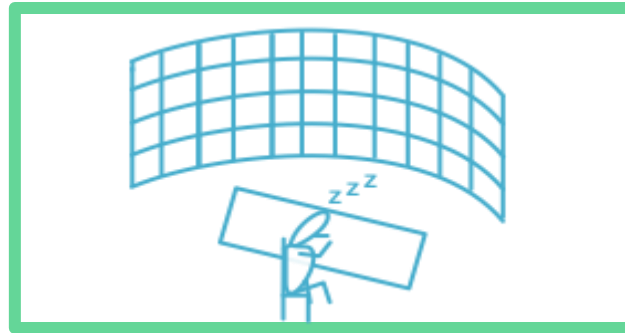
Video cameras can provide tons of information...



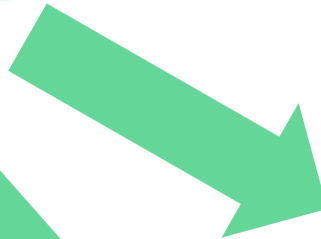
Video cameras can provide tons of information...
... if we store and monitor the feeds.



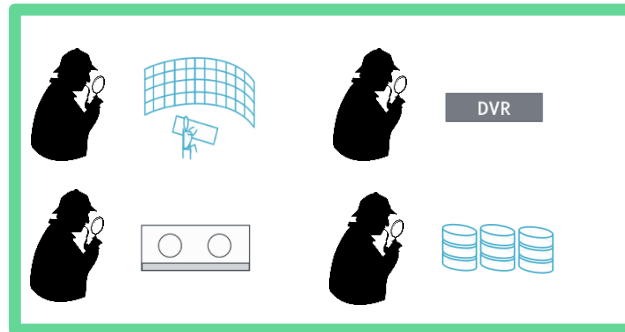
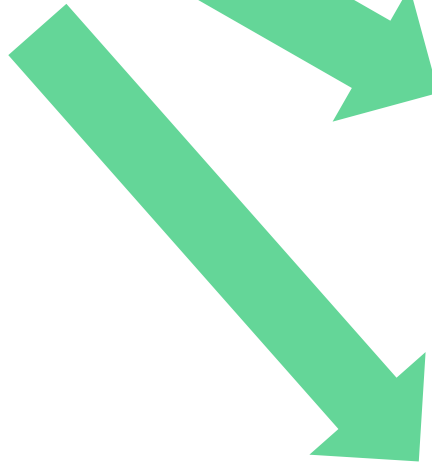
Cameras



Monitoring is **error prone**.



Manual search is difficult.



Analysis of **multiple feeds from multiple sources** is difficult.

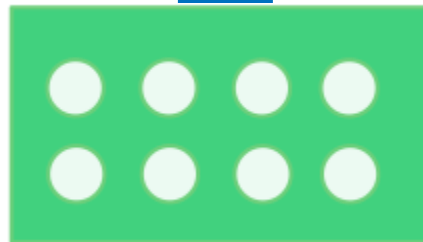
But even so, getting that information is hard.

Q: How to solve this problem?

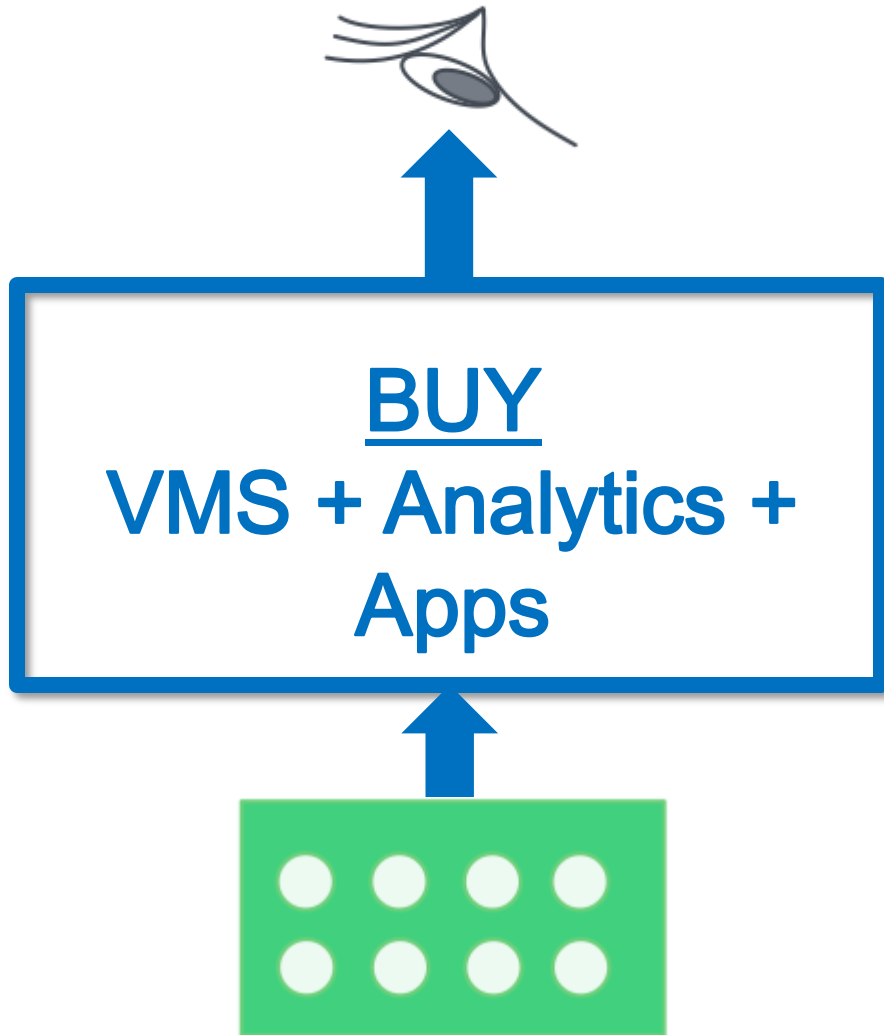
A: Make video data **useful through **analytics****



Analytic modules and applications



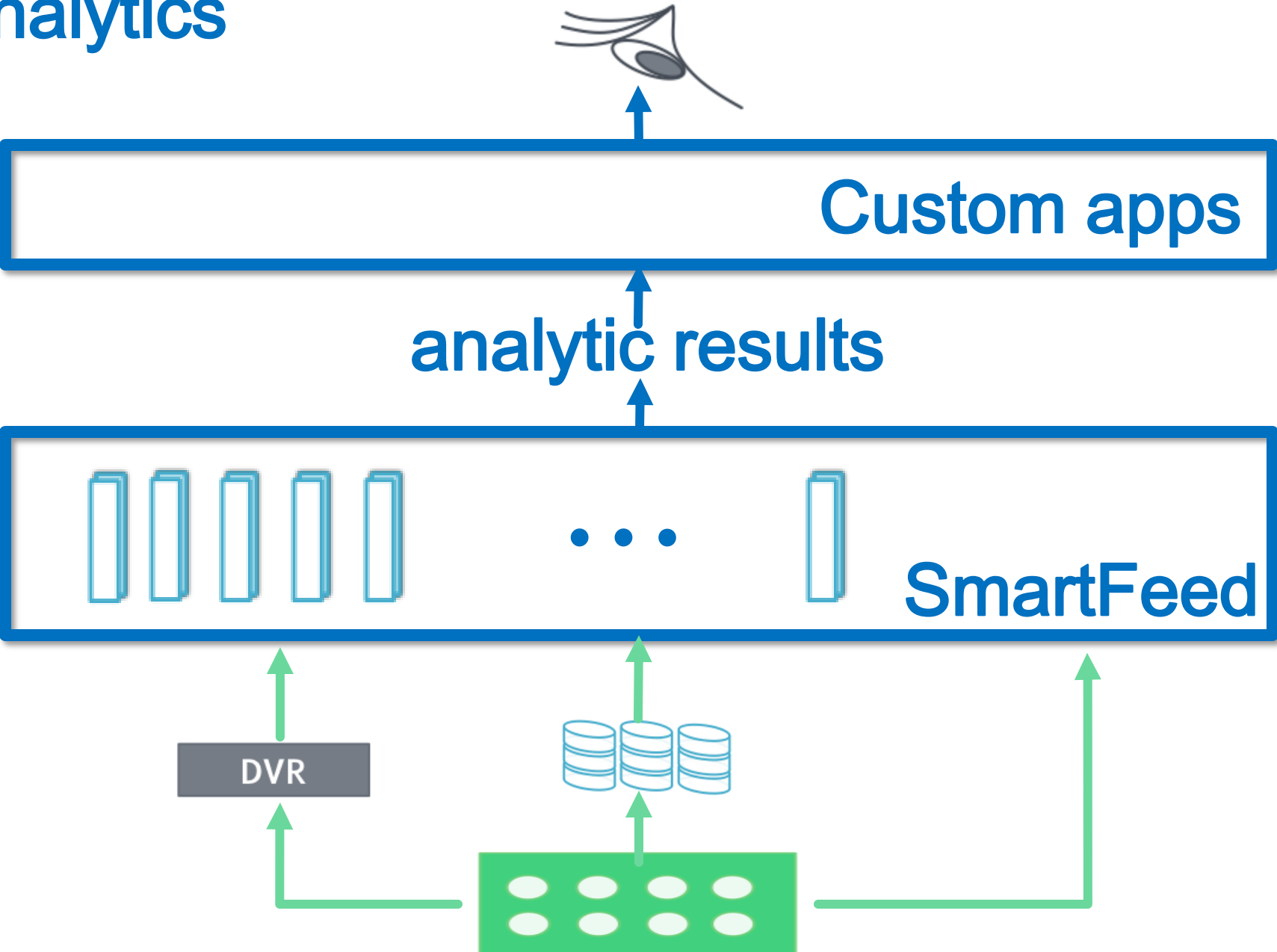
Current practice



Analytics in the market are

- costly
- foreign made
- not comprehensive
- “cookie cutter”

Our solution: custom-made, modular analytics



SmartFeed

▶ Market Segments

- ▶ Public spaces
- ▶ Private enterprises
- ▶ Residential spaces

▶ Technology Platforms

- ▶ Embedded systems
- ▶ Enterprise data center solutions
- ▶ Cloud-based solutions

▶ Existing Modules (ready for deployment)

- ▶ Lane change, speed, red light violation
- ▶ Person and vehicle counting, LPR
- ▶ Smoke and fire detection
- ▶ Fighting, falling, running, car crash detection
- ▶ Left luggage detection

▶ Customizations to date

- ▶ Traffic Police, Prime Minister's Office
- ▶ PTT
- ▶ NSTDA, TRF

Why Us?

- ▶ Strong team located in Thailand
- ▶ Real experience!
 - ▶ Lane change violation: Din Daeng, Sutthisan
 - ▶ Red light violation: Rama IX intersection
 - ▶ Logistics monitoring: PTT
 - ▶ People and vehicle counting: Pattaya Municipality
 - ▶ Empty parking space identification: NSTDA
 - ▶ Fighting, falling, running detection: Prime Minister's Office
 - ▶ Traffic monitoring smart wall: Traffic Police Division
 - ▶ Speeding violation: Nong Khai (in progress)
 - ▶ Vehicle speed tracking: Toyota (in progress)
 - ▶ Many more in progress



- ▶ Visit our booth for brochure and video demos of our analytics
- ▶ Write mdailey@ait.asia and mongkol@ait.asia for more information