Integrated Computing

Computing that is woven into the fabric of our daily lives is the key to making life safer and more efficient.

At Intel Labs, engineers create ingenious ways to build high-tech, connected devices into everyday items to help you make smarter decisions.

50 billion
Expected number of connected devices by 2020. That's an average of six devices per person!

70%
Mobile traffic growth in 2012.

36 million
The number of connected tablets in 2012.

SMART HOMES

The Near Future
Living a seamlessly connected lifestyle isn't as far off as you would think: Intel chips can be placed virtually anywhere, from human skin to a running shoe.

1 Intelligent dishes and silverware that determine dietary needs.

2 Connected with wireless displays at home.

3 Connected with wireless mobile displays.

SAFER DRIVING

Intelligent street lighting in Helsinki, Finland uses automatic sensors to dim or brighten depending on environmental conditions.

1 Predictive mapping to calculate road safety.

2 Vehicle sensors that transfer inter-car data about position and velocity.

SUSTAINABLE LIVING

How does Data Fusion work for cities? The combination of fixed, mobile and voluntary sensors allows to get larger impactful insights and services, such as traffic management.

1 **Voluntary Mobile Sensing**
Participants volunteer to sense the environment with external devices like phones.

2 **Fixed Sensing**
Sensors are used to collect data on environmental elements.

3 **Opportunistic Mobile Sensing**
The system uses an external device to collect information.

200% increase
The expected growth in five years for the smart home market.

(intel)