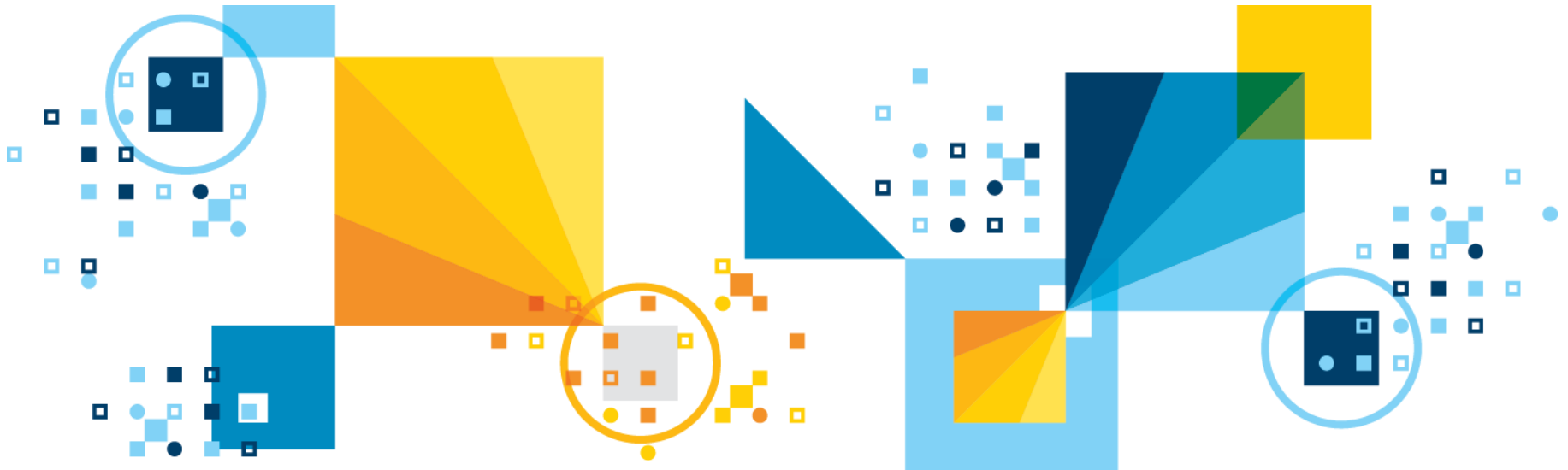
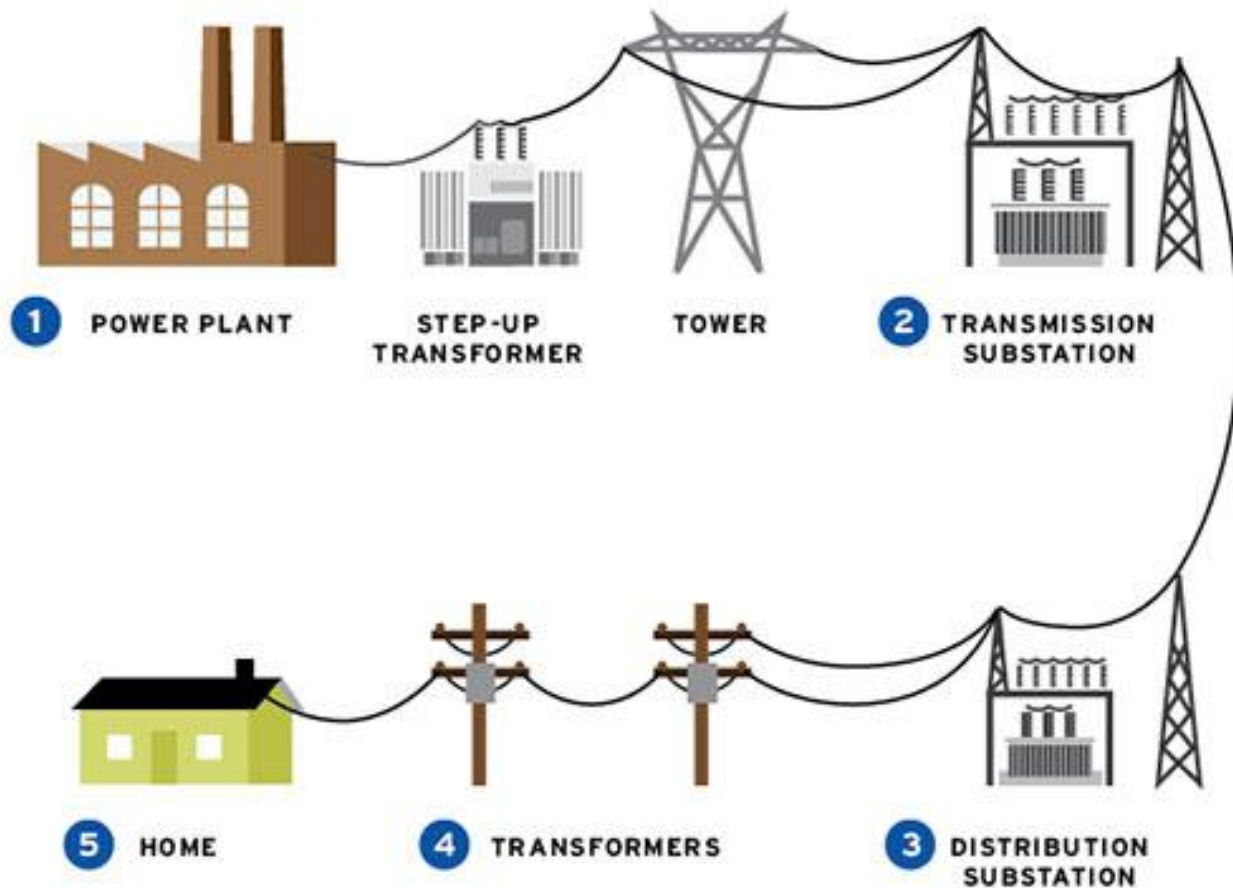


Georgi Ganev Analytics Leader IBM Bulgaria

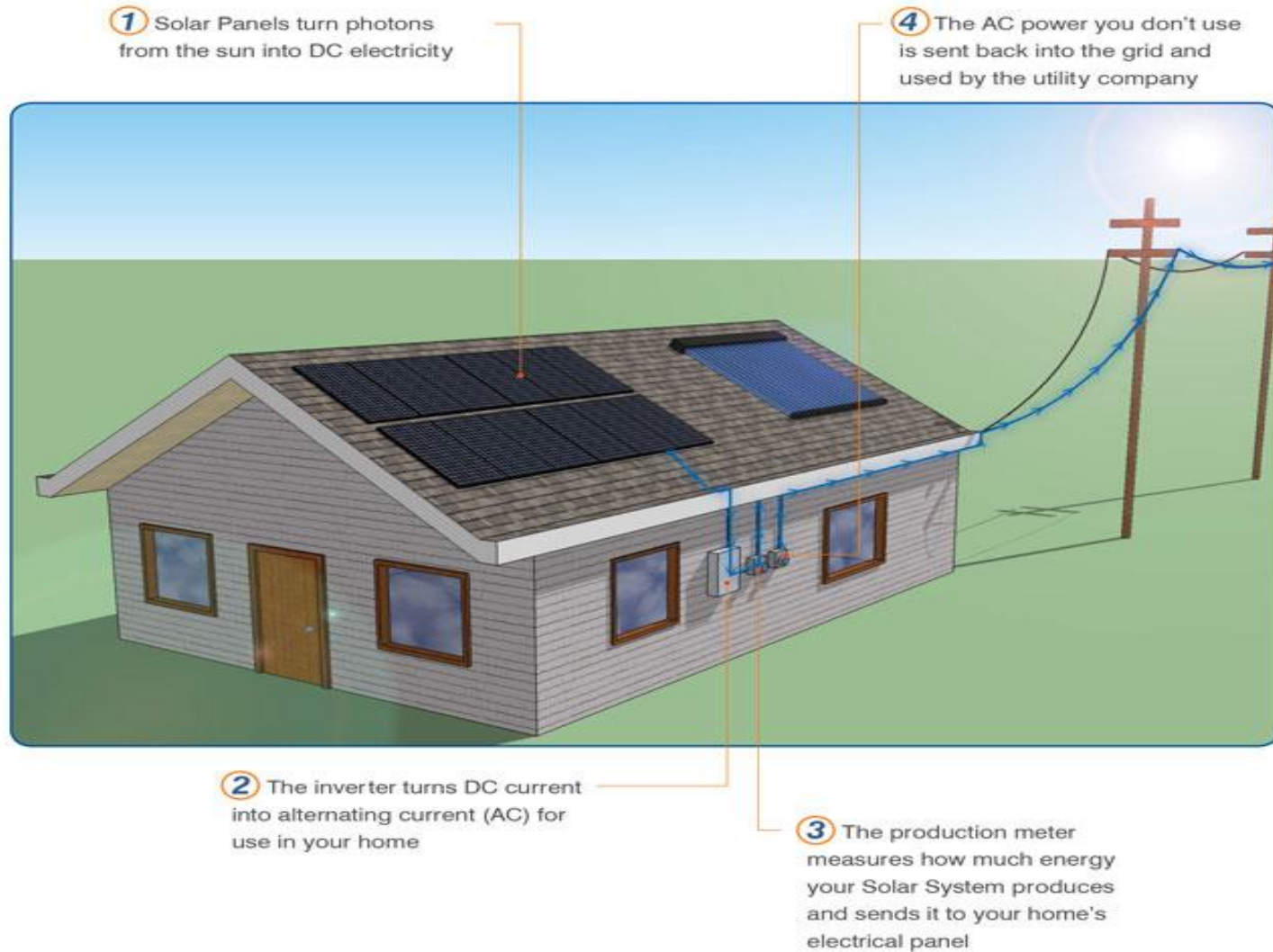
Information Server Overview



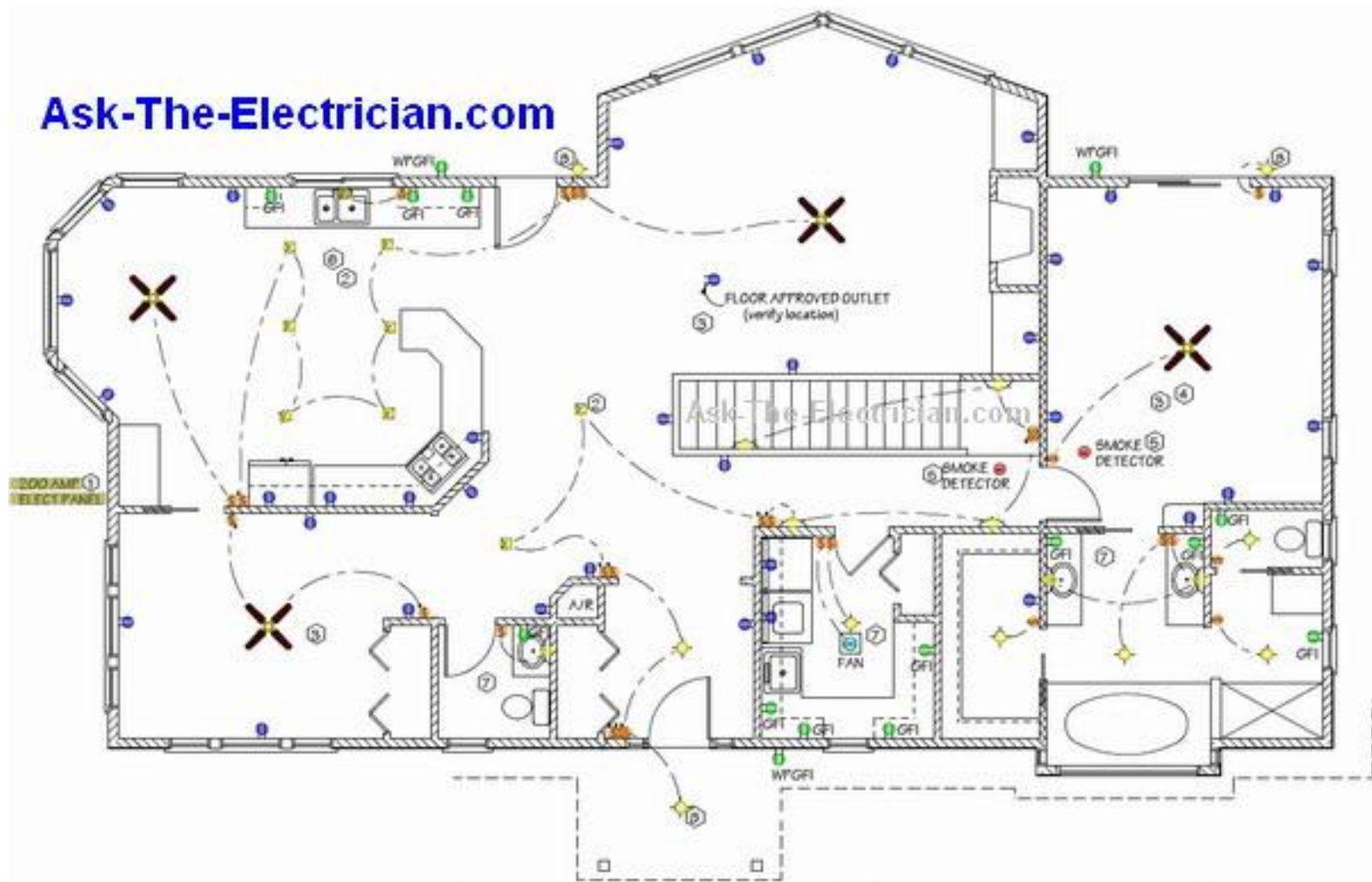
How to bring light where needed



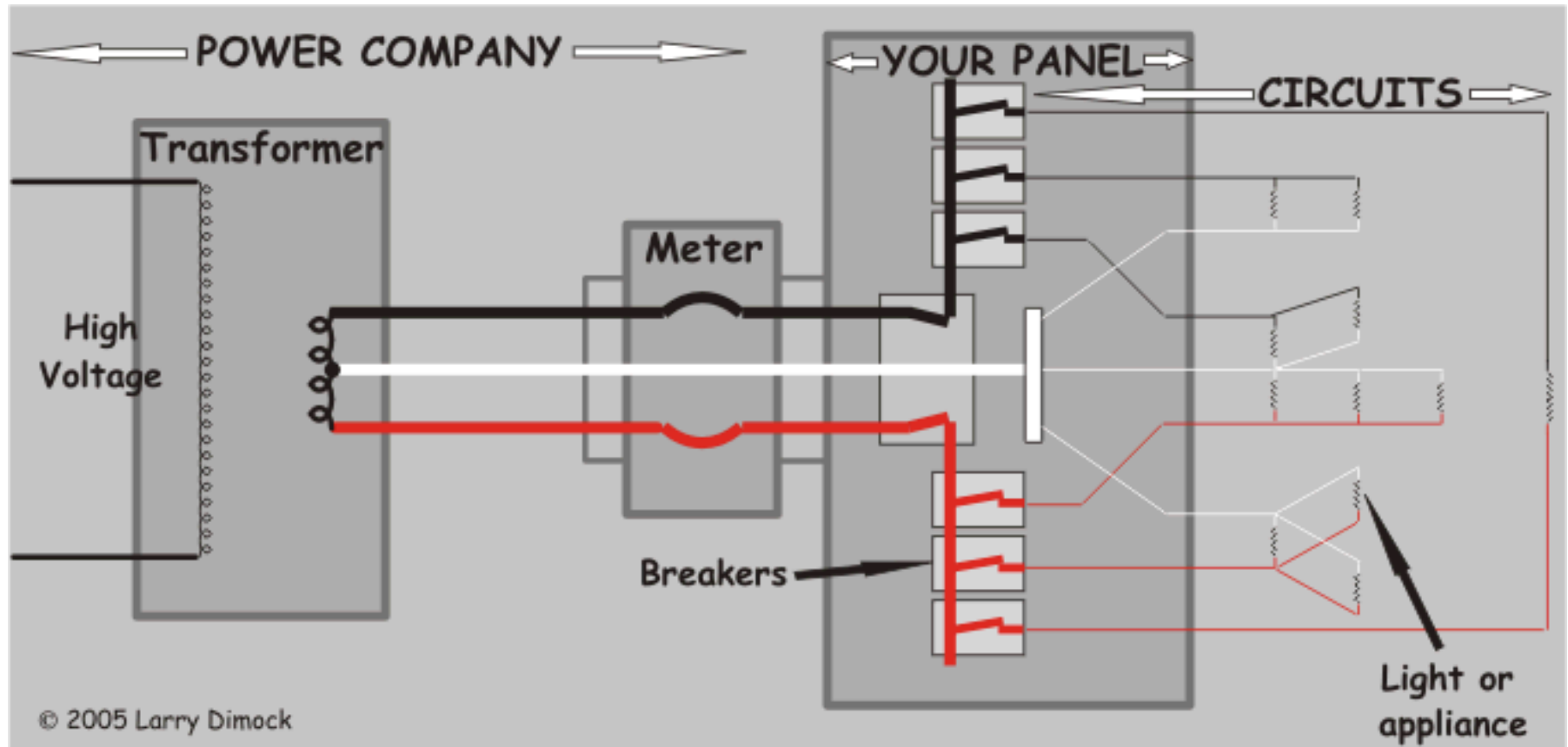
Electricity is home



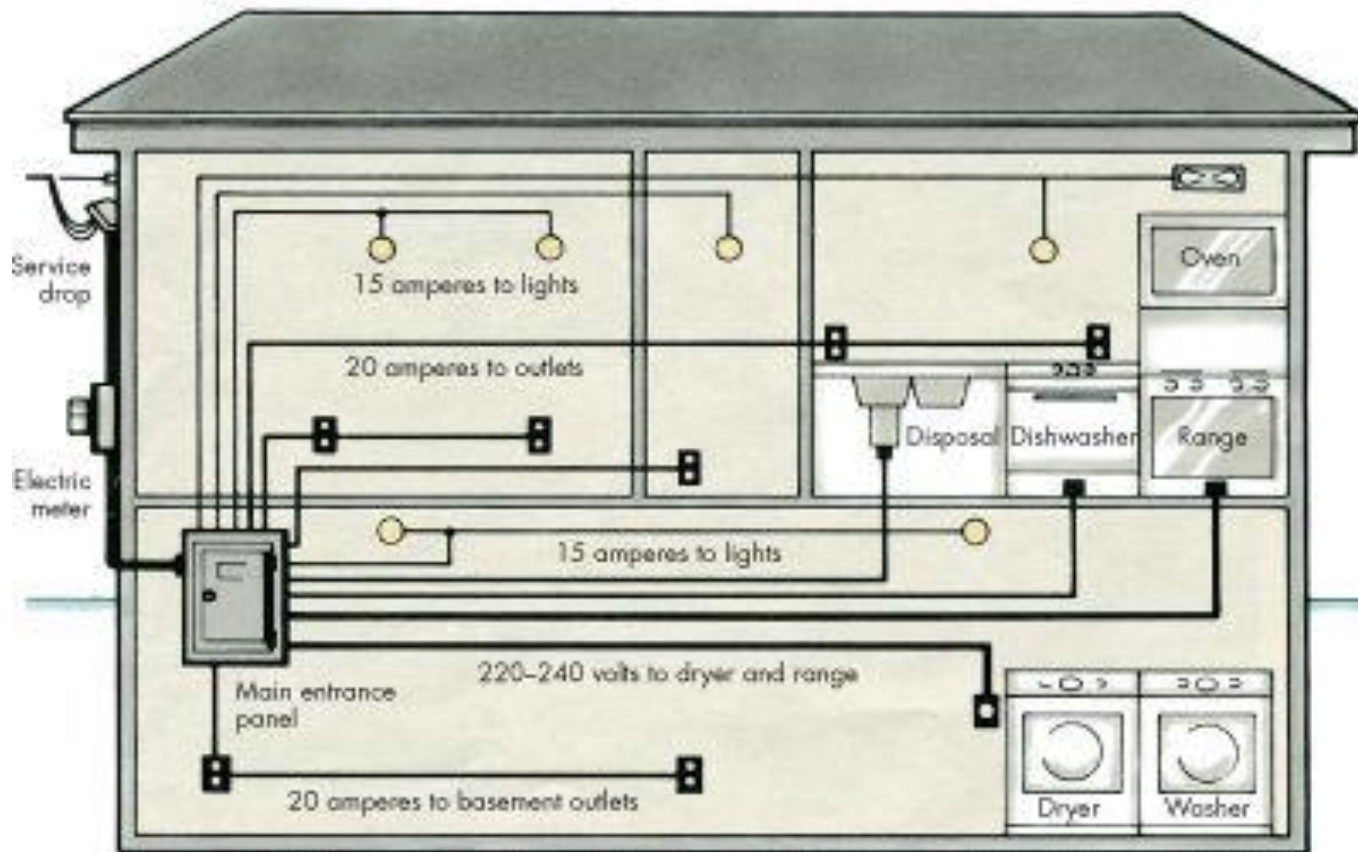
Schema design



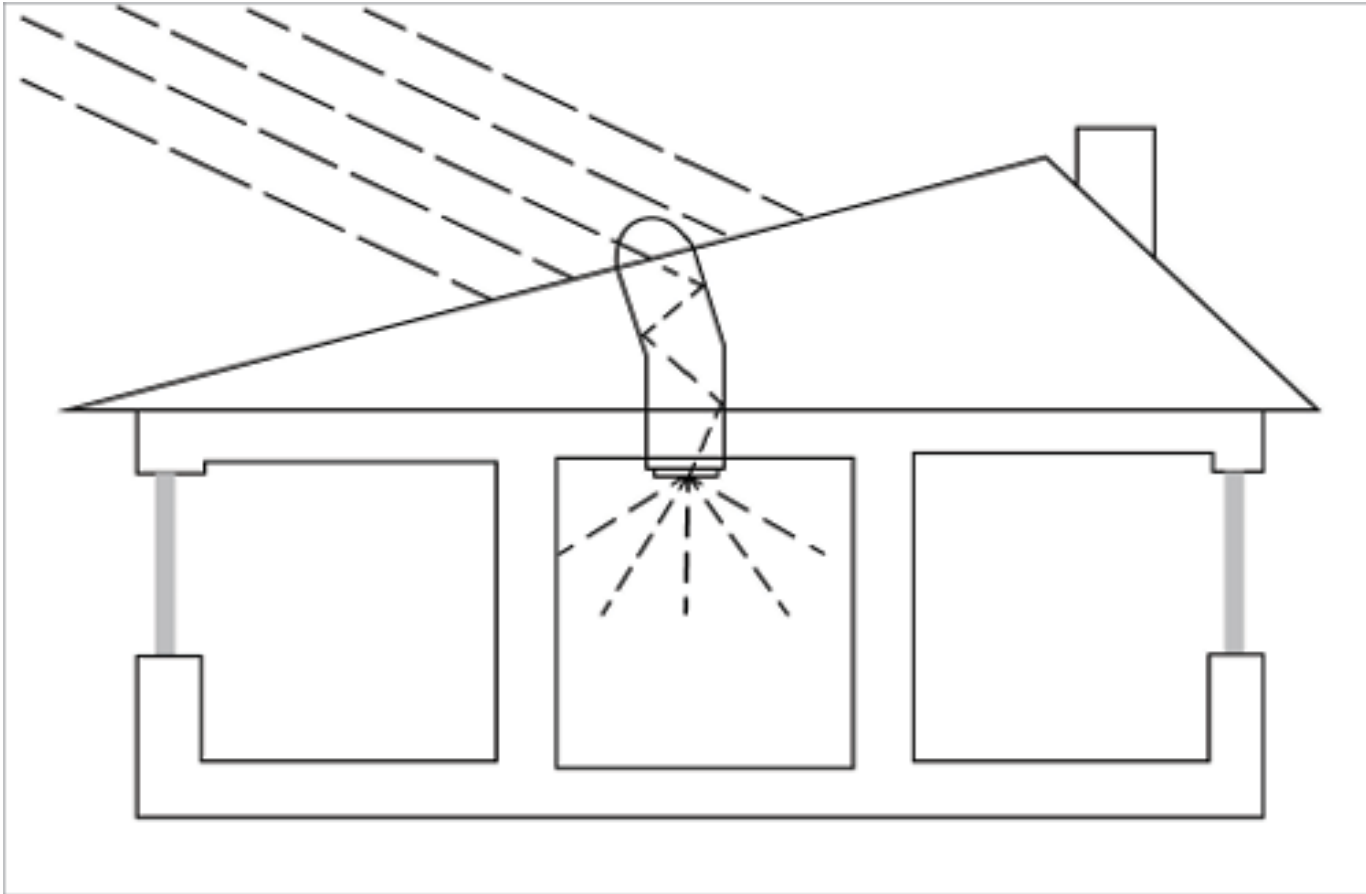
Light to your home



Point of electricity presence



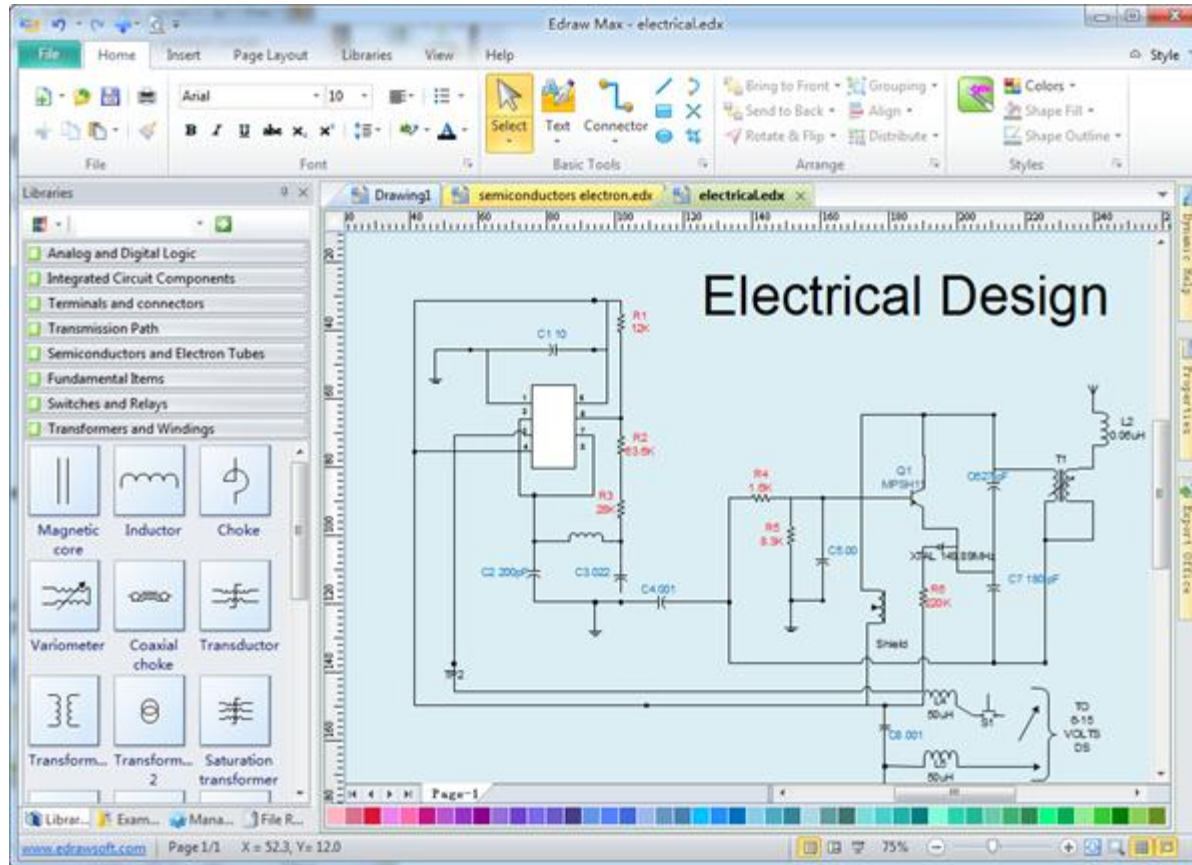
Different sources



Meter – monitoring and quality





























Blueprint to manage and govern



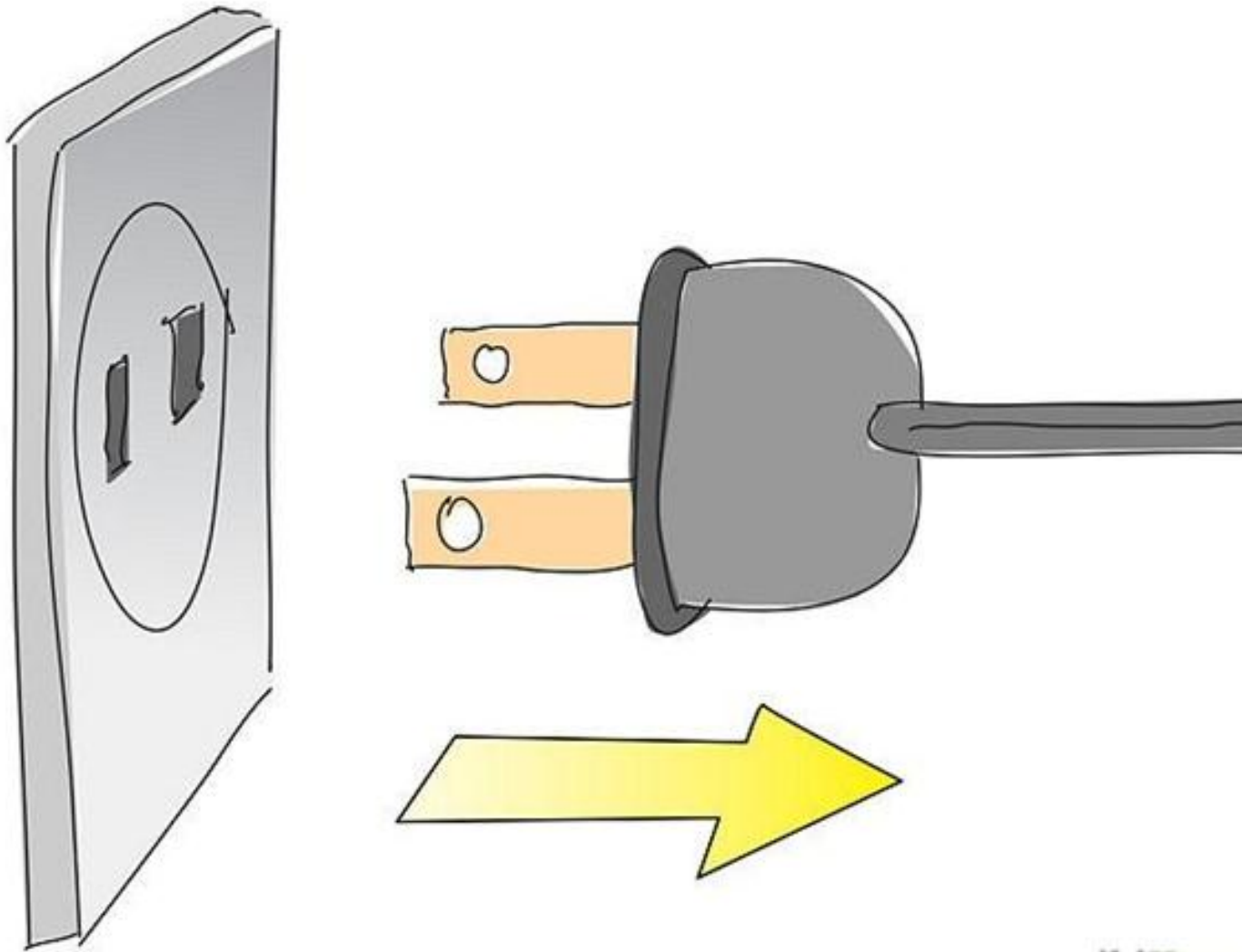
What is where



Meta Data

	Electrical switchbox		Single Pole Switch
	Three-Way Switch		SinglePlex Receptacle
	Duplex Receptacle		Duplex Receptacle WP= Waterproof
	GFCI Duplex Receptacle		Isolated Ground Receptacle
	Switched Receptacle		FourPlex Four Gang Receptacle
	240-Volt Receptacle		Ceiling Mounted Light Fixture PC= Pullchain
	Wall-Mounted Light Fixture		Recessed Light Fixture
	Weatherproof Light Fixture		Fluorescent Light Fixture
	Ceiling Fan		Combination Light & Fan
	Power Vent Fan		Electric Motor Number=HP
	Smoke Detector		Circuit Breaker
	Telephone Jack		Doorbell Transformer
	Doorbell Pushbutton		Ground

Plug and run



Management and business wants a result in a click



Users Need Data that is Accurate, Reliable and Trustworthy



Data Engineer



Data Scientist



Developer



Business Analyst



Data Steward



Public



Enterprise
Data



Web/Mobile
Data



Social



IoT



Businesses are challenged to answer key questions about the integrity of their data:

- Where is my data?
- Who has access to this data?
- Am I protecting sensitive data?
- Do I have the right data and context?
- How do I move and transform complex datasets?
- Do I understand the risk of using this data “as is”?
- How do I make data more readily available to my consumers?

Understand All Your Data for Consistent Outcomes and Better Impact Analysis

- **Data is not properly integrated**
 - Data silos
 - Disparate data sources
 - Inconsistent data quality between sources

- **One integrated source of data**
 - Confidence in communicating as one
 - Improved accuracy and consistency of analysis and reporting
 - Minimized complexity searching for data
 - Understand data lineage



Have the Right Data at the Right Time

- **Users don't have access to the right data at the right time**
 - Creates a strain on IT to meet LOB needs
 - More time integrating and cleansing
 - Less time interpreting and analyzing

- **Self-service access and capabilities**
 - Provides data users with the necessary access to manage data on their terms
 - Empowers both IT and LOB to focus on high priority projects



Improve Decision Making and Meet Compliance Guidelines

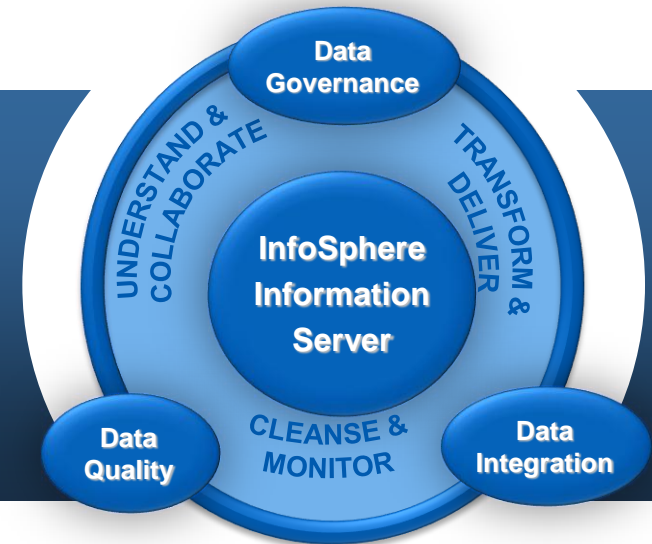
- **Organizations are facing compliance requirements**
 - Fines for non-compliance
- **Inaccurate decisions based on lack of governance and policies**
- **Governance and Data Quality**
 - Strengthen risk data aggregation capabilities and internal risk reporting practices
 - Enhance the risk management and decision making processes at banks



Information Empowerment for your Data Ecosystem

.. powered by Information Server

Integrating and transforming data and content to deliver accurate, consistent, timely and complete information on a single platform unified by a common metadata layer



Data Governance

Understand & Collaborate

- Catalog technical metadata & align w/ business language
- Manage (big) data lineage
Compliance reporting



Data Quality

Cleanse & Monitor

- Analyze & validate with enhanced classification
- Cleanse & standardize
- Define, manage & monitor data rules + exceptions



Data Integration

Transform & Deliver

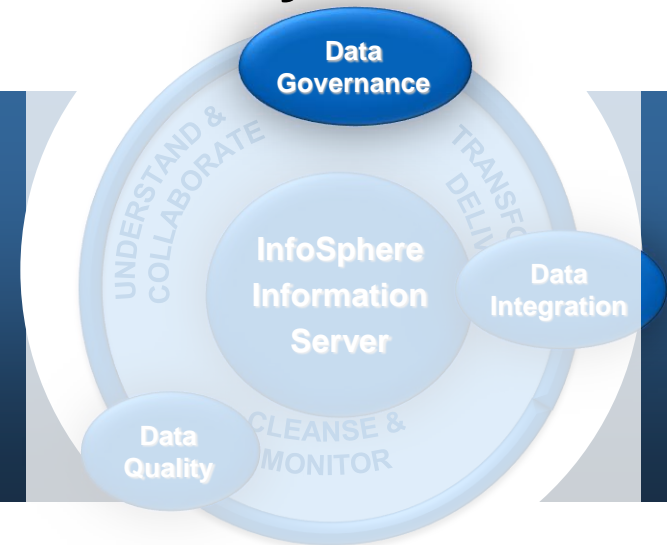
- Massive scalability
- Power for any complexity
- Deliver in batch and/or real-time with change capture

- common connectivity • shared metadata • security (data privacy functions included)
- common execution engine with flexible deployments (native on YARN)

Information Empowerment for your Data Ecosystem

.. powered by Information Server

Integrating and transforming data and content to deliver accurate, consistent, timely and complete information on a single platform unified by a common metadata layer



Data Governance

Understand & Collaborate

- Catalog technical metadata & align w/ business language
- Manage (big) data lineage
- Compliance reporting



Data Quality

Cleanse & Monitor

- Analyze & validate with enhanced classification
- Cleanse & standardize
- Define, manage & monitor data rules + exceptions



Data Integration

Transform & Deliver

- Massive scalability
- Power for any complexity
- Deliver in batch and/or real-time with change capture

- common connectivity • shared metadata • security (data privacy functions included)
- common execution engine with flexible deployments (native on YARN)



Understand Your Information

Make It An Enterprise Asset

Information Governance

Define common business terms, policies, and rules

Understand all sources of big data with centralized metadata

Visualize and explore data lineage

Create workflow to consistently manage change

Key use cases

Establish a common understanding and manage business perspectives to better align with IT

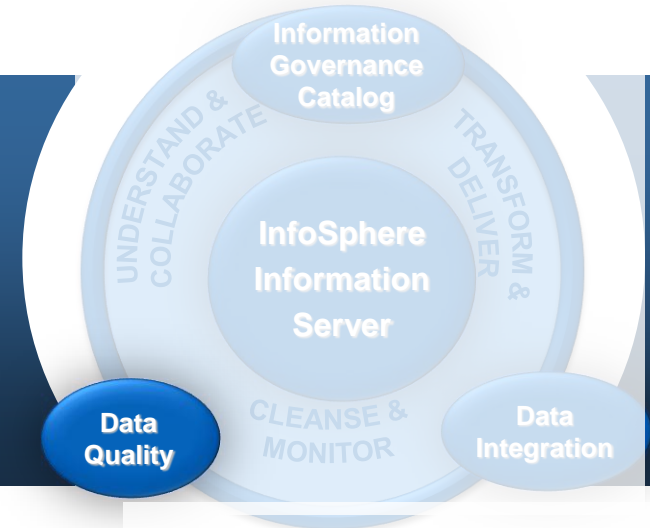
Capture data lineage and data structures required for regulatory reporting and establishing confidence in data being used for analytics

Capture and codify policies for handling information including sensitive and private information

Information Empowerment for your Data Ecosystem

.. powered by Information Server

Integrating and transforming data and content to deliver accurate, consistent, timely and complete information on a single platform unified by a common metadata layer



Data Governance

Understand & Collaborate

- Catalog technical metadata & align w/ business language
- Manage (big) data lineage
- Compliance reporting



Data Quality

Cleanse & Monitor

- Analyze & validate with enhanced classification
- Cleanse & standardize
- Define, manage & monitor data rules + exceptions



Data Integration

Transform & Deliver

- Massive scalability
- Power for any complexity
- Deliver in batch and/or real-time with change capture

- common connectivity • shared metadata • security (data privacy functions included)
- common execution engine with flexible deployments (native on YARN)

Turn Your Data Assets Into High Quality Trusted Information



Data Quality

Automate discovery of critical data and hidden relationships

Investigate, standardize, match, and survive data

Define data stewardship workflow for remediating data quality concerns

Validate and monitor data in motion

Key use cases

Analyze, cleanse and monitor your big data natively on Hadoop

Use source system analysis to understand where data quality issues exist

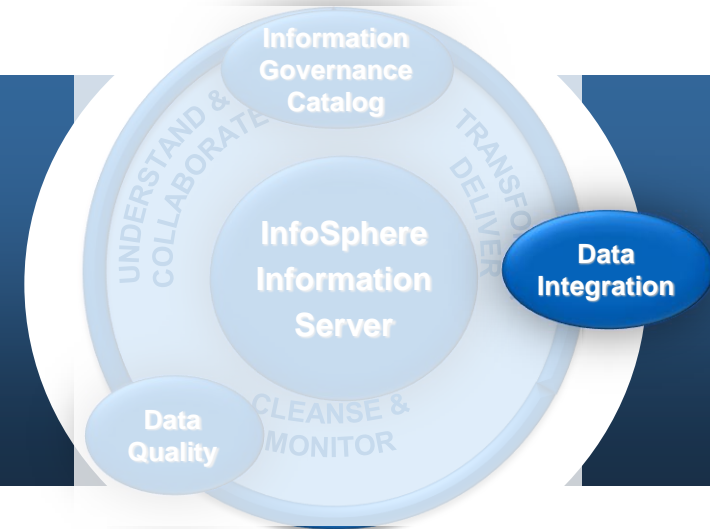
Monitor the quality of your data anywhere; within databases or data flows

Align your data quality metrics with your governance objectives and policies

Information Empowerment for your Data Ecosystem

.. powered by Information Server

Integrating and transforming data and content to deliver accurate, consistent, timely and complete information on a single platform unified by a common metadata layer



Data Governance

Understand & Collaborate

- Catalog technical metadata & align w/ business language
- Manage (big) data lineage
- Compliance reporting



Data Quality

Cleanse & Monitor

- Analyze & validate with enhanced classification
- Cleanse & standardize
- Define, manage & monitor data rules + exceptions



Data Integration

Transform & Deliver

- Massive scalability
- Power for any complexity
- Deliver in batch and/or real-time with change capture

- common connectivity • shared metadata • security (data privacy functions included)
- common execution engine with flexible deployments (native on YARN)

Improve Time-to-value to Rapidly Transform and Deliver Data



Information Integration

Transform data of
any complexity

Deliver data for real-time
analytics and
continuous availability

Create virtual, consolidated
views of multiple data
sources without moving data

Efficiently capture and deliver
changes to enterprise data

Key use cases

Ingest, transform, process and deliver
data natively on Hadoop

Transform and deliver data between
systems critical to running
your business

Ensure the appropriate treatment of
sensitive and private information via
data masking

Utilize the cloud for expanding
workloads as needed