



Setting the Standard for Automation™

IIoT de ponta a ponta – Otimizando a eficiência operacional

Samir Lima e Gustavo Salomão

Standards
Certification
Education & Training
Publishing
Conferences & Exhibits

II Simpósio ISA São Paulo de Automação em Sistemas de Água e de Esgoto, 23 de novembro de 2015, Sabesp Ponte Pequena

Soluções

em **Automação** e
Gestão de Processos

Liderança

no **Brasil**

1986

Experiência

**Brasil e
Taiwan**

Escritórios
no Mundo

30 países

Parceiros
no **Mundo**

50.000

Sistemas
Instalados

elipse
software

**Quality
Assurance**

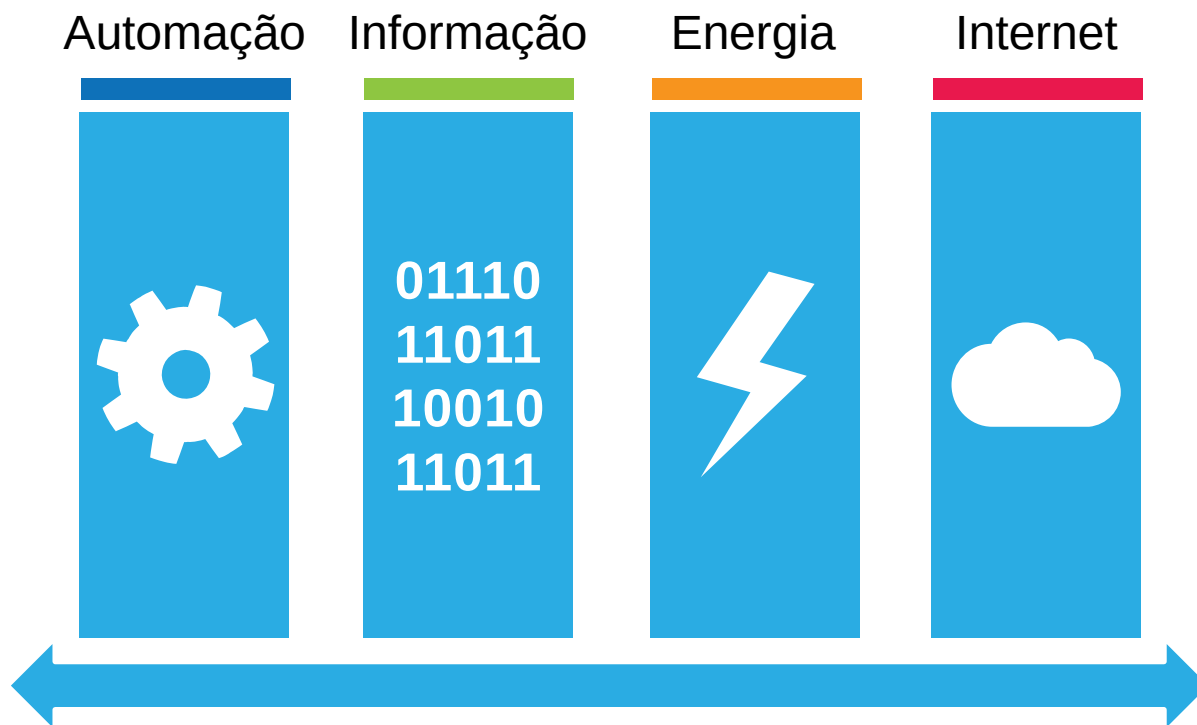
Eclipse Care

Certificações

**Constante
Evolução do
Produto**

**Rede de
Distribuidores
e Integradores**





elipse
software

- Mais de 17 Anos de fornecimentos
- Automação de Boosters, EEEs, EEATs, Poços Artesianos, ETEs, ETAs, etc.
- Sólido conhecimento nos protocolos utilizados (Drivers)
- Gateway para integração do sistema de automação com o SCOA

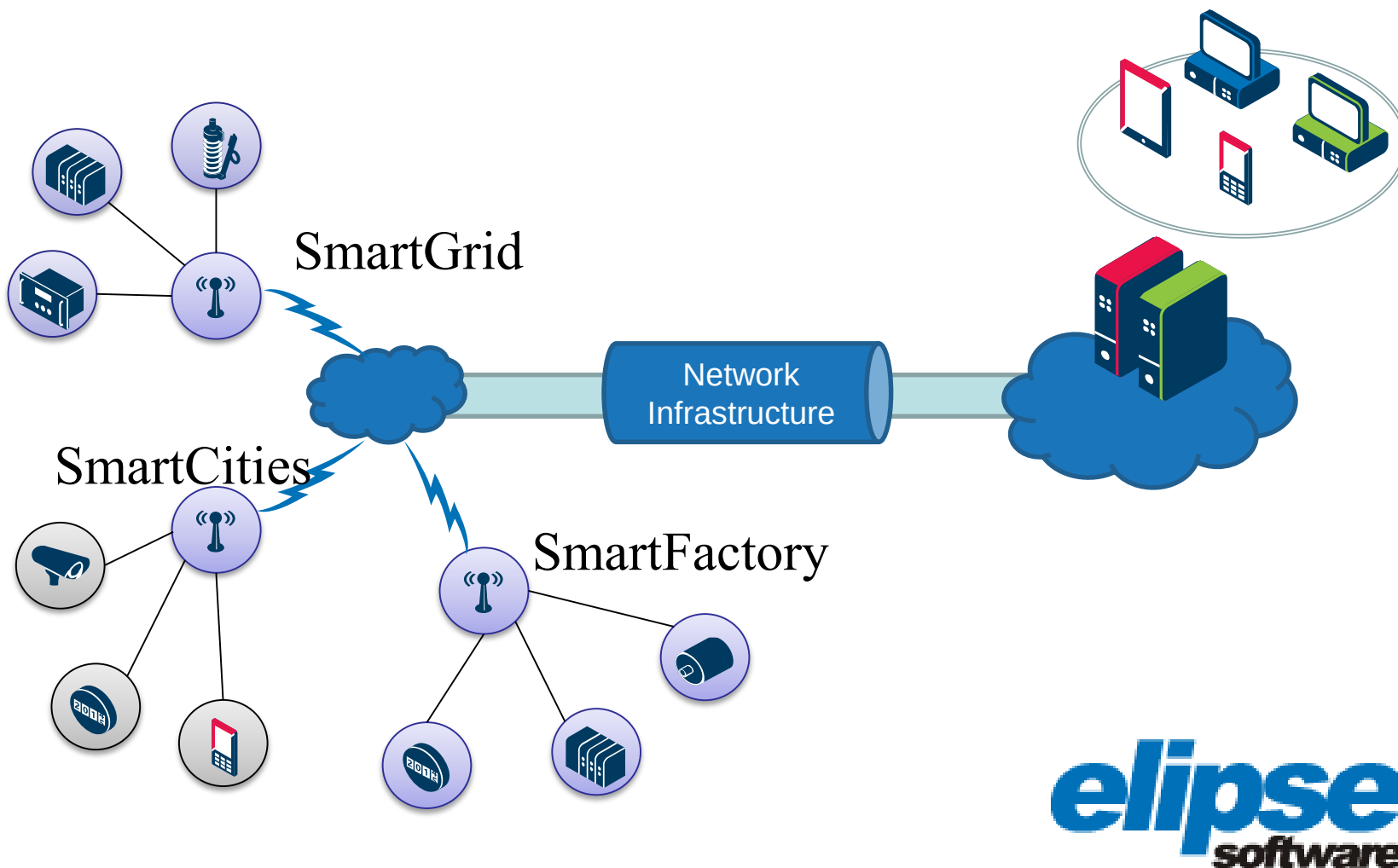
Empresas com soluções Elipse



- Águas de Guariroba – PR
- Águas de Niterói
- Águas do Imperador
- CAGECE - CE
- CESAN - ES
- CITÁGUA
- COPASA
- CORSAN– RS
- DMAE – RS
- EMAE
- Empresa Baiana de Água e Saneamento
- GMS Gestão
- Prolagos
- SEMAE – Mogi das Cruzes
- SAAE Guarulhos
- SAAE Pirapora – MG
- SABESP - Itatiba
- SABESP – Poá
- SABESP - Presidente Prudente
- SABESP - Registro
- SABESP – SJC
- SABESP – SP
- SABESP – Lins
- SABESP - Caraguatatuba
- SANASA
- SANEATINS
- SANEP – RS
- SANEPAR

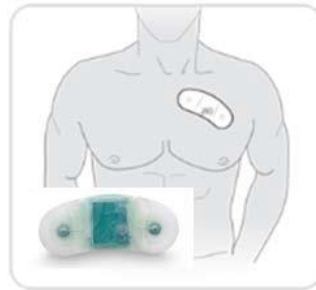
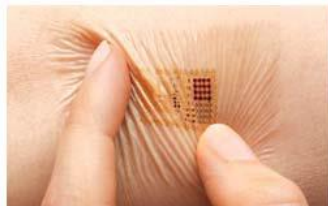


IoT – Internet of Things



elipse
software

Sensor Mania



elipse
software

85%

não conectados

Equipamentos
Industriais

Gateways
Industriais

Integrando
Sistemas Legados

+ 50B

em 2020

Dispositivos
Conectados

*Instituto: IDC Research

+70M

Smartphones

No Brasil em 2017

50%

com Internet

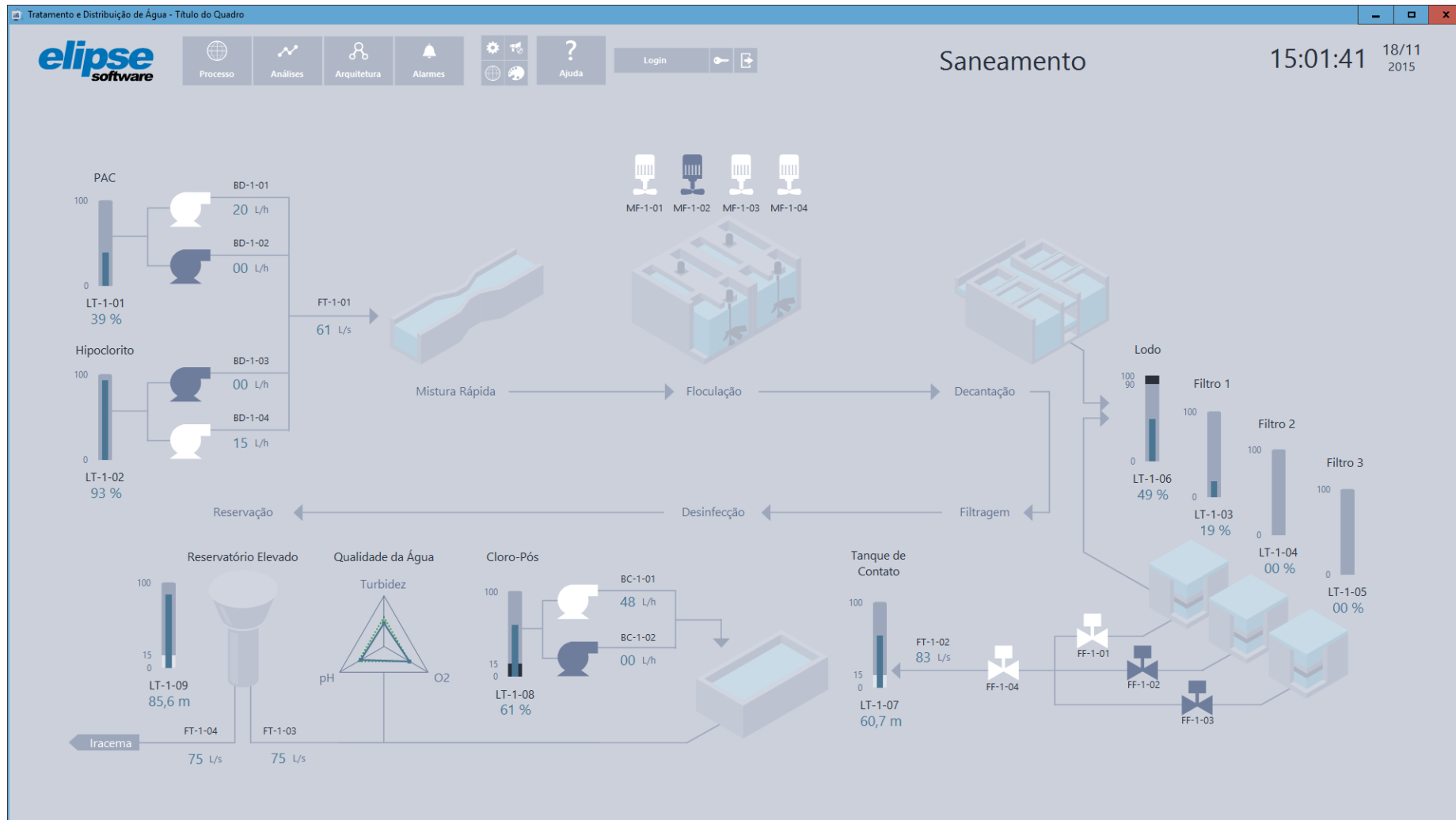
No Brasil
em Set/2014

elipse
software

Tratamento de Água



SCADA – Eclipse E3



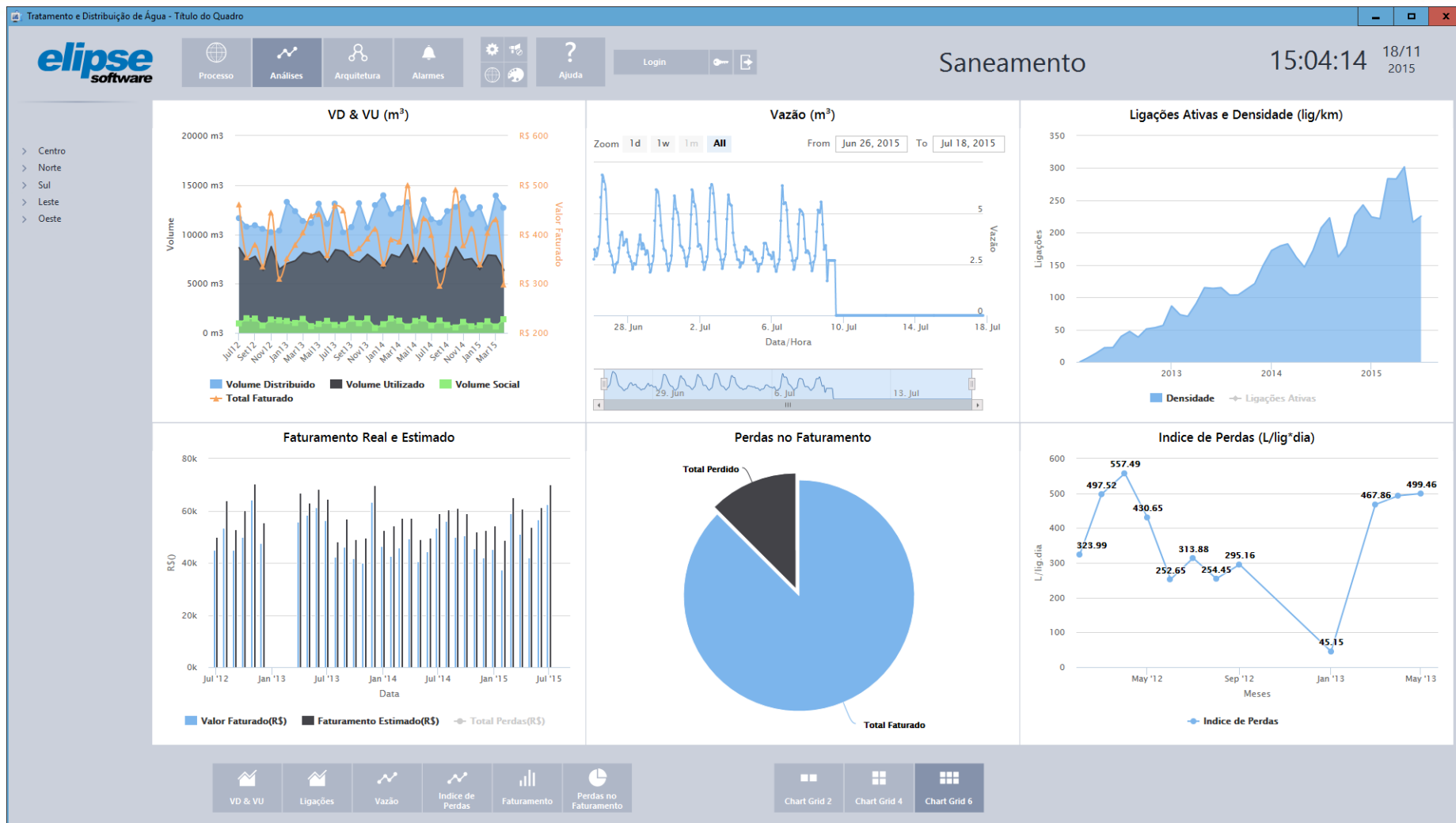
Elipse Mobile





- Gerenciar toda a cadeia de produção de água, agregando e consolidando informações operacionais;
- Cálculos de indicadores de performance;
- Gerenciar e otimizar o uso de energia;
- Controle de qualidade da água;
- Medição centralizada;
- Detecção de vazamento e controle de perdas;
- Integrar com sistemas corporativos existentes (ERP, GIS, SGA);
- Reduzir custos de operação e manutenção – Gestão de Ativos;

Visualização e análise



Performance

Decision

Intelligence

Readiness

Security

Management

Information

Vision

The large amount of data generated by several control and process management systems represent a major challenge for managers and

Future

Engineers, resulting, on one hand, in daily struggles to extract and understand information, and on the other hand a waste of a

Value

Extract and understand information, and on the other hand a waste of a valuable source to identify improvement opportunities

Insights

Knowledge

The large amount of data generated by several control and process management systems represent a major challenge for managers and engineers, resulting, on one hand, in daily struggles to extract and understand information, and on the other hand a waste of a valuable

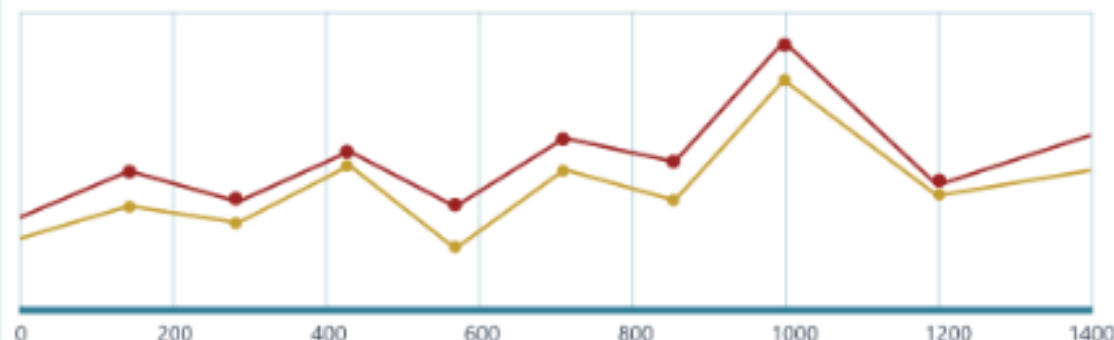
Performance
Decision

Management

Effectiveness

● Optimization

● Integration



Assertiveness

Intelligence
Readiness

Connectivity



As part of Eclipse Software's information management initiative, Eclipse Plant Manager (EPM) provides a fast, simple, and reliable way to collect data

reliable way to collect data from a variety of real-time sources (including historical series), by storing and contextualizing information, and offering high

Connectivity

Optimization

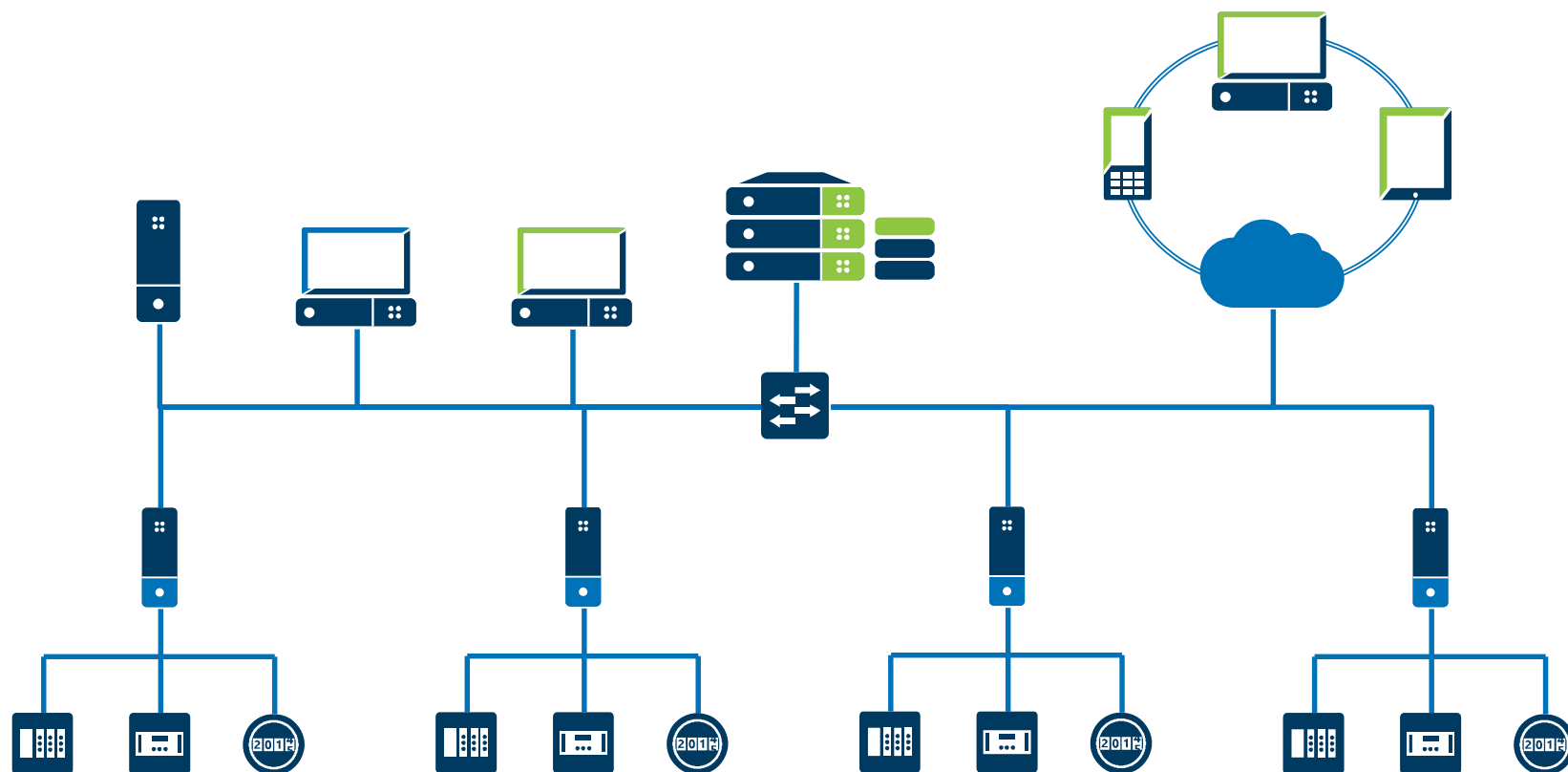
Effectiveness

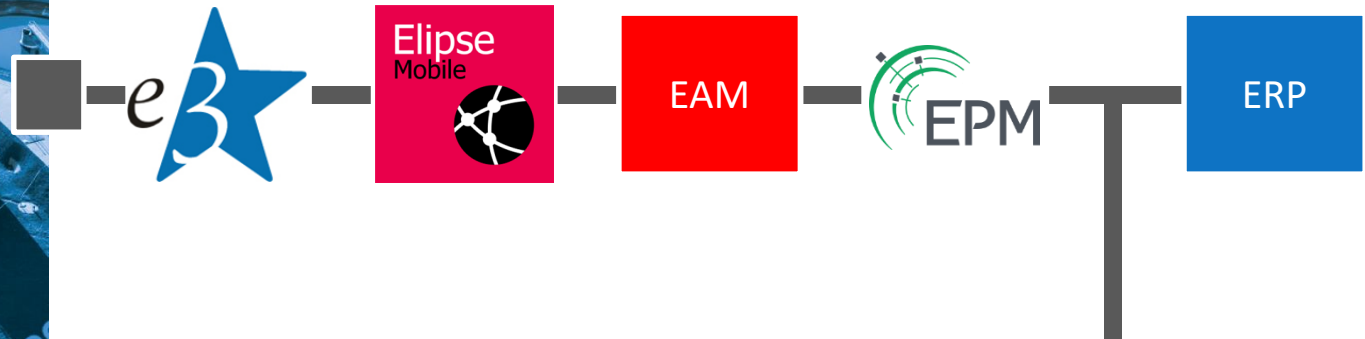
Knowledge

Insights

Knowledge

Process management systems represent a major challenge for managers and engineers, resulting, on one hand, in daily struggles to extract and





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