Methods

Integrated
Logistic
Support
Engineering

ICT

Services

Since 1973

SeTeL

Celebrating 40 years of Business
1973 - 2013

Eduardo De Francesco e.defrancesco@setelgroup.it

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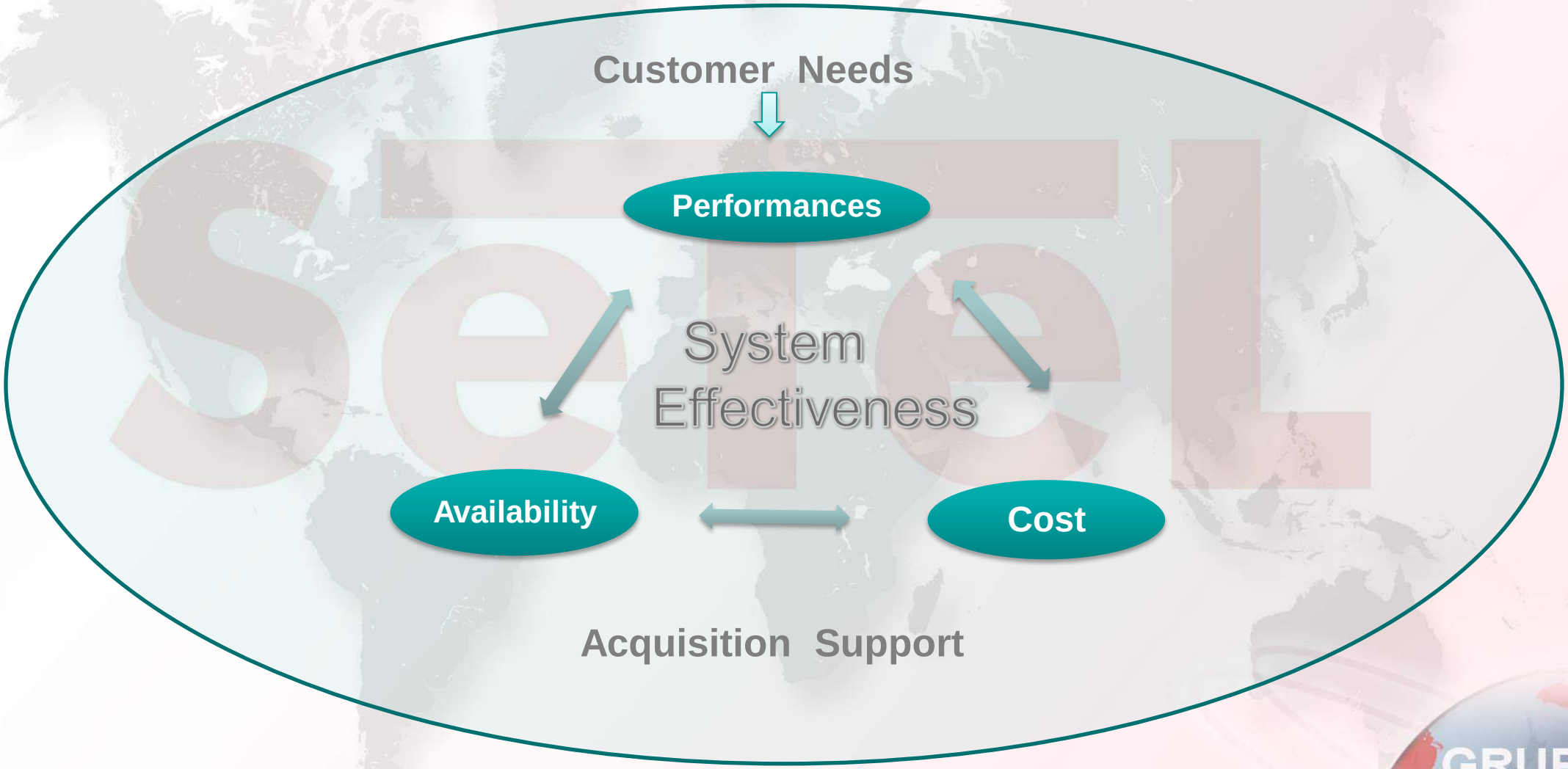
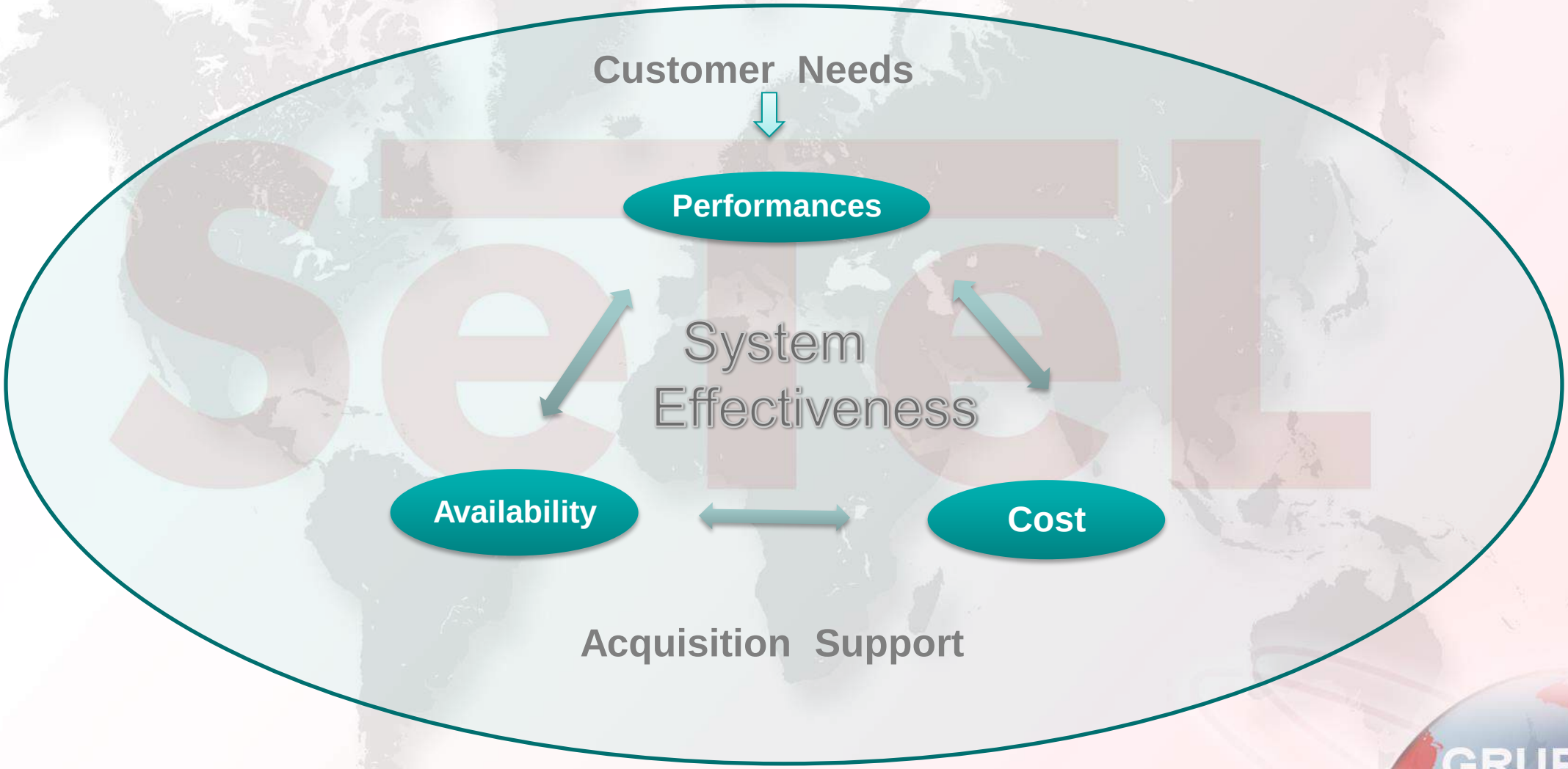

Customer Needs
Performances
System
Effectiveness
Availability
Cost
Acquisition Support


Customer Needs
Performances
System
Effectiveness
Availability
Cost
Acquisition Support

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Clients & Experiences

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SeTeL

INTEGRATED LOGISTIC SUPPORT ENGINEERING

TECHNICAL DOCUMENTATION

INFORMATION & COMMUNICATION TECHNOLOGY

TECHNICAL TRAINING

120 COMPLEX SYSTEMS

NAVY | AIR FORCE | CIVIL AVIATION | MISSILES & ARTILLERY | RADAR | SPACE | RAILWAYS | TELECOMS & ELECTRONIC WARFER

CAVOUR

ORIZZONTE

FREMM

BDSL ALGERIA

MAESTRALE

COMANDANTI (NUMC)

BAYNUNAH

FALAJ 2

LERICI

LAT-YA

LAKSMANA

GAETA

U212A

MS ROTTERDAM

SPARVIERO

EL KASSEH ALGERIA

NITEROI

LUPO

VITTORIO VENETO

MEDINA SAWARI

BACK SKIP

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Integrated Logistic Support Engineering

SeTeL

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120 COMPLEX SYSTEMS

NAVY | AIR FORCE | CIVIL AVIATION | MISSILES & ARTILLERY | RADAR | SPACE | RAILWAYS | TELECOMS & ELECTRONIC WARFER

JSF

EFA2000 EUROFIGHTER

TORNADO

MIRAGE

G222

C27J

NH-90

A-149

A-129

EH-101

NH-500 MD

ATC GIOIA del COLLE SATCAS-80-2-G

ATC TRAPANI BIRGI SATCAS-80-2-G

ATC DECIMOMANNU SATCAS-80-2-G

ATC SIGONELLA

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ATC KUWAIT AIRPORT

CRAV ROME CIAMPINO

B.AIRES EZEIZA AIRPORT

MOSKOW SHEREMETYEVO AIRPORT

BEIJING INTERNATIONAL AIRPORT

ANKARA ESEMBOGA AIRPORT

ATR 42

AEROPORTO DI LOCARNO

BACK SKIP

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Integrated Logistic Support Engineering

SeTeL

INTEGRATED LOGISTIC SUPPORT ENGINEERING

DOCUMENTAZIONE E MANUALISTICA TECNICA

INFORMATION & COMMUNICATION TECHNOLOGY

FORMAZIONE TECNICA E ADDESTRAMENTO

L'ESPERIENZA SETEL SU CIRCA 120 SISTEMI COMPLESSI

NAVALE | AERONAUTICA MIL. | AVIAZIONE CIVILE | SISTEMI MISSILISTICI E ARTIGLIERIE | **RADAR** | SPAZIO | TRASPORTO FERROVIARIO | TELECOMUNICAZIONI E SISTEMI DI GUERRA ELETTRONICA

EMPAR, FADR, PAAMS, VTS, KRONOS, SINDRE, RAN 40-L, PANAMA HOMELAND SECURITY, ATCR33S, PAR, GRIFO, SIR-M, RAT-31 S, MRCS-403, NA25X; RAN 20S; ARGOS 73, ARES B

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TECHNICAL DOCUMENTATION

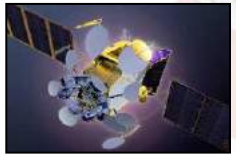
INFORMATION & COMMUNICATION TECHNOLOGY

TECHNICAL TRAINING

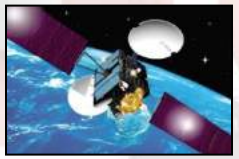
120 COMPLEX SYSTEMS

NAVY | AIR FORCE | CIVIL AVIATION | MISSILES & SISTEMI MISSILISTICI E ARTIGLIERIE | RADAR | SPACE | RAILWAYS | TELECOMS & ELECTRONIC WARFER

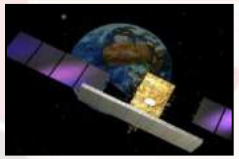
ASTROLINK



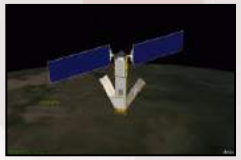
ARTEMIS



COSMO SKYMED



IRIDIUM



INMARSAT

EUMETSAT

OPTSAT 3000

SICRAL-SICRAL 1B

ENVISAT

VEGA

PGS FUCINO

CGC VIGNA DI VALLE

C. GEOD. SPAZ. (MT)

ESRIN

SYSTA

S.MARCO

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INFORMATION & COMMUNICATION TECHNOLOGY

TECHNICAL TRAINING

120 COMPLEX SYSTEMS

NAVY | AIR FORCE | CIVIL AVIATION | SISTEMI MISSILISTICI E ARTIGLIERIE / MISSILES & ARTILLERY | RADAR | SPACE | RAILWAYS | TELECOMUNICAZIONI E SISTEMI DI GUERRA ELETTRONICA / TELECOMS & ELECTRONIC WARFER

SCALO MERCI

HABSAN – RUWAIS (EAU)

AV TORINO – PADOVA

FERROVIA TIRRENICA

MERSIN - BOGAZKOPRU

AV GEBZE -

ALE 711-132-FM

TAF (TRENO ALTA FREQ.)

VOSSLOH G2000

METRO ATLANTA

METRO MANCHESTER

METRO COPENHAGEN

METRO ANKARA

METRO MADRID

METRO LEGGERA AARHUS

METRO ROMA C

METRO MILANO 5

METRO BRESCIA

METRO STOCCOLMA

METRO ROMA B1

METRO GENOVA

TRAM SIRIO

TAIPEI CIRCULAR LINE

RETE FERR.NORVEGESE

METRO LOS ANGELES

E464 FS

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PAGE EUROPA
SHELTER PER COMUNICAZIONI NATO

CLIA TELECOM ITALIA
(CENTRI DI LAVORO IMPIANTI DI ABBONATO)

SISTEMA RADIO SRT-178

SISTEMA RADIO RH5-478

BACK SKIP

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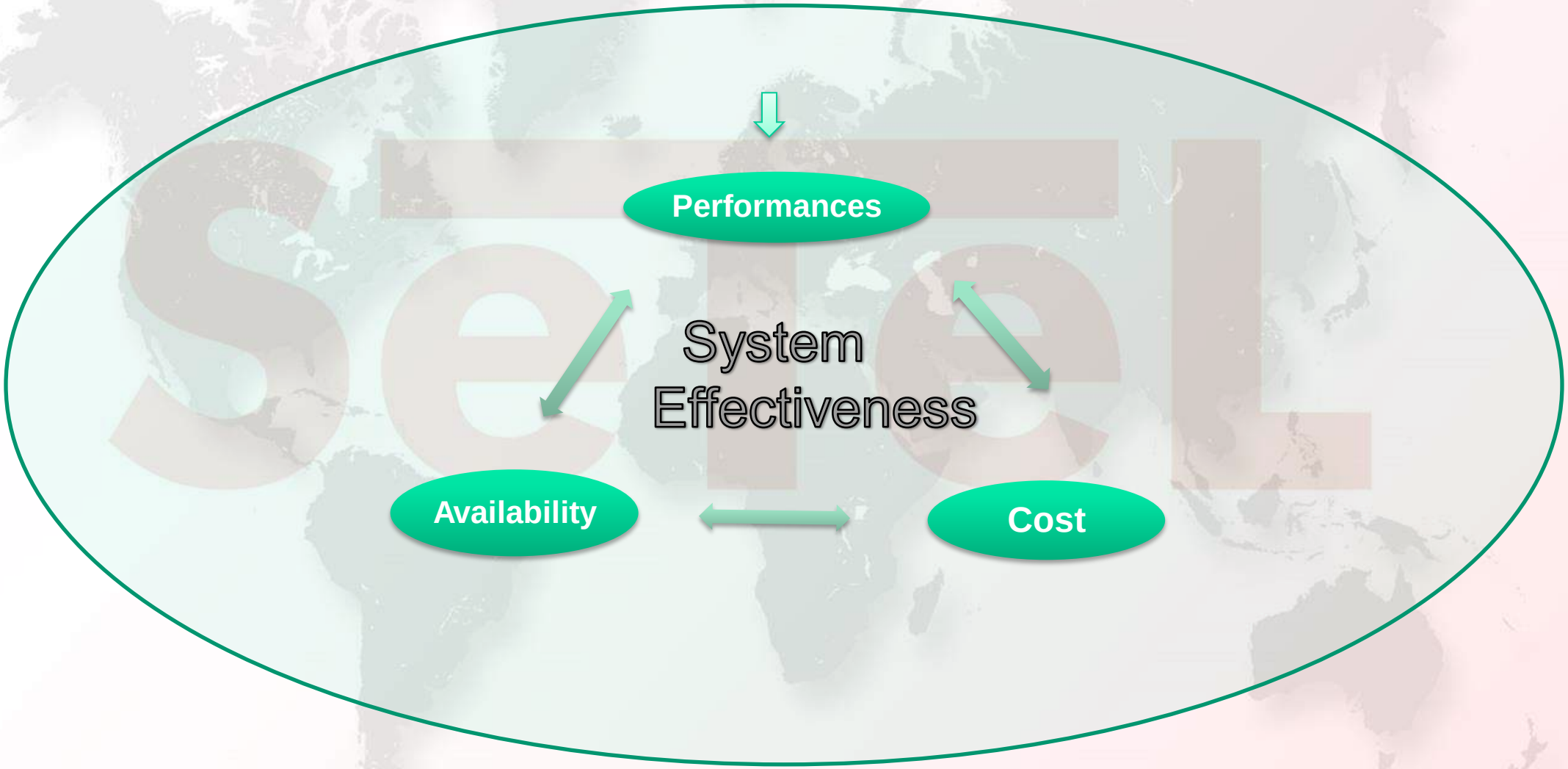
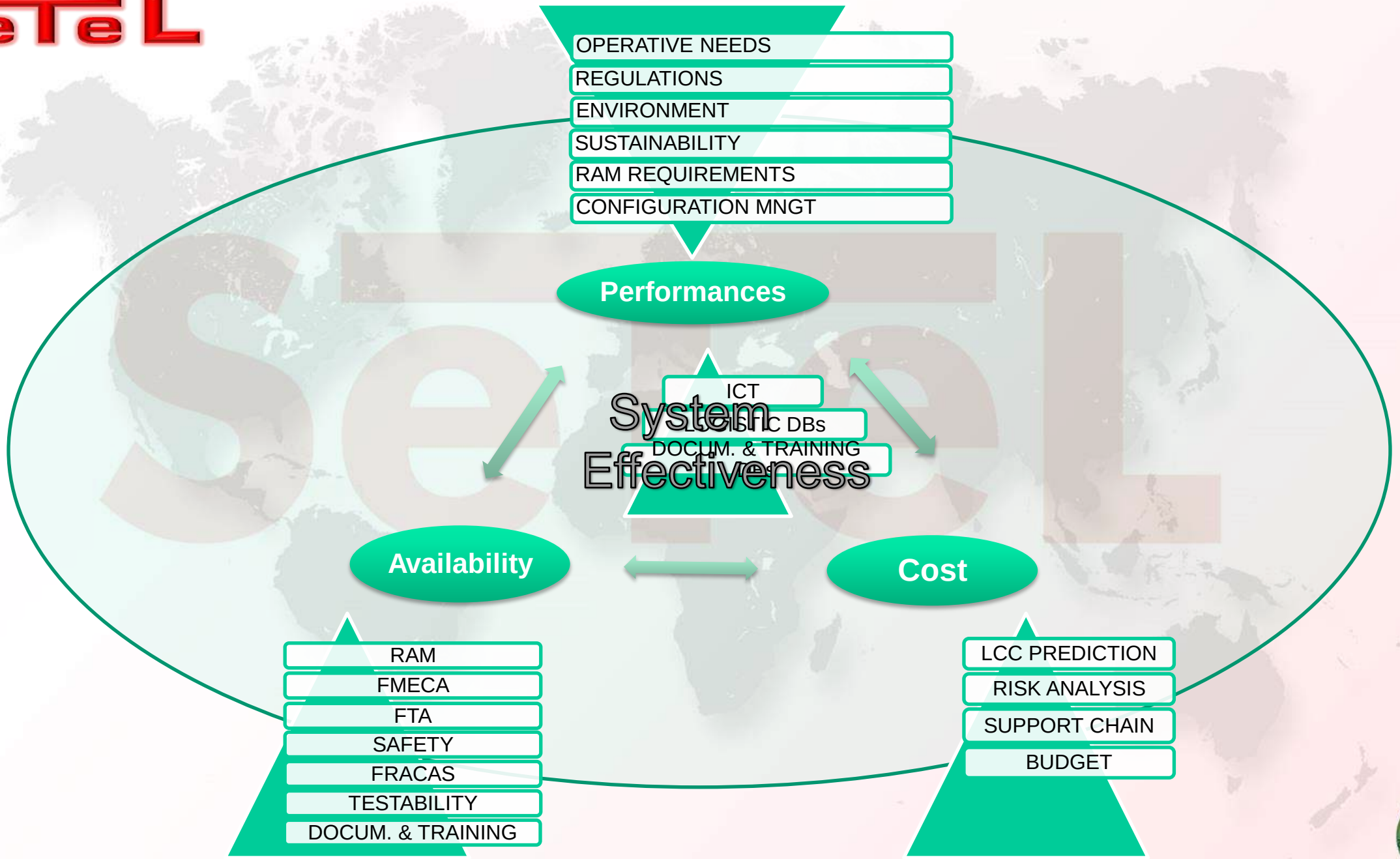
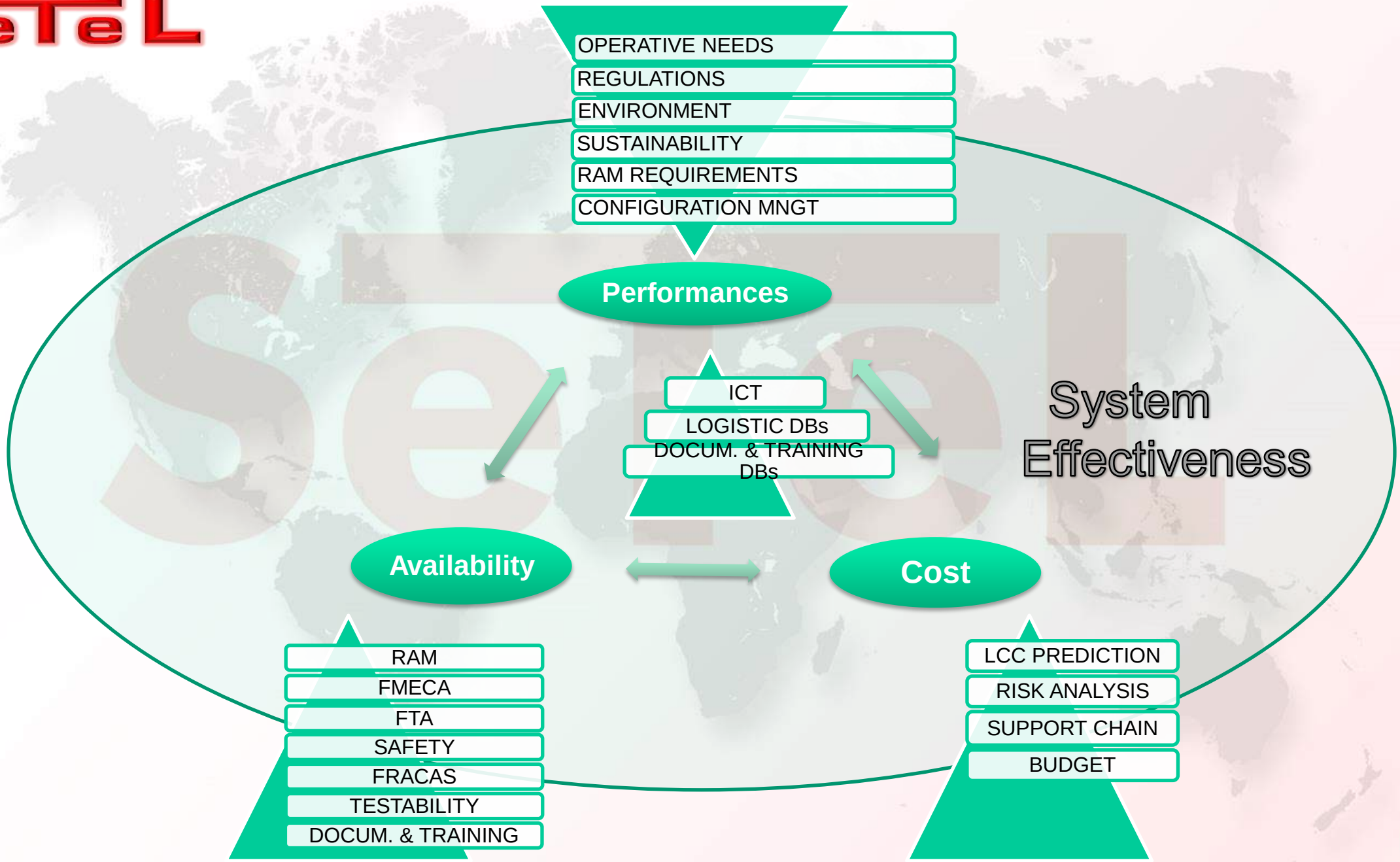
Integrated Logistic Support Engineering


Performances
System
Effectiveness
Availability
Cost


OPERATIVE NEEDS
REGULATIONS
ENVIRONMENT
SUSTAINABILITY
RAM REQUIREMENTS
CONFIGURATION MNGT
Performances
ICT
LOGISTIC DBs
DOCUM. & TRAINING
System Effectiveness
Availability
Cost
RAM
FMECA
FTA
SAFETY
FRACAS
TESTABILITY
DOCUM. & TRAINING
LCC PREDICTION
RISK ANALYSIS
SUPPORT CHAIN
BUDGET


OPERATIVE NEEDS
REGULATIONS
ENVIRONMENT
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RAM REQUIREMENTS
CONFIGURATION MNGT
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LOGISTIC DBs
DOCUM. & TRAINING DBs
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LCC PREDICTION
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BUDGET

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ILS Process Flow

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Requirements
&
Verification
Management

1388 1A e 2B; S3000-L | S1000-D | SCORM & S1000-D TRAINING

DESIGN & DEVELOPMENT

Baseline (Configuration Control)

2002
2017

Reliability
Mantainability
FMECA
Testability

1983
2016

Logistic Support Analisys & Design

Maintenance Policy

1997
2014

Traditional & Interactive Technical Publications

1973
1992
2006

Traditional & Technology Based Training

1980
1987
2004

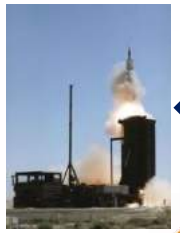
Resources & Costs Optimization

2007

Sites & levels
Tasks
Tools
Skills
Spare Policy

2000

Maintenance Management Systems



Customer

TPS
Technical Publication Suite

TBT
Technology Based Training Engine

Integrated Logistic Support Engineering

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IT Logistics

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The ASD S3000L for the enhancement of "in Field" Avionic Measurements

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Fabio Leccese
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Roma, Italy
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Anna Paggi
ItalConsul s.r.l.,
Via Frangipane 24, 00184,

Abstract— **A methodology to enhance the efficiency of avionic measurements through the support of the ASD S3000L database is propose... FMEA/F... structure, lead to th... identifica... of the ... identifica...**

This ... allows t...

Keywo...

20th IMEKO TC4 International Symposium and
18th International Workshop on ADC Modelling and Testing
Research on Electric and Electronic Measurement for the Economic Upturn
Benevento, Italy, September 15-17, 2014

The CoDeF structure: a way to evaluate Ai ...sed by multiple minor ...ations.

..., Ettore De Francesco,
...defrancesco@setelgroup.it, r.defrancesco@setelgroup.it

complex systems.

The type of Availability that is of interest in this article is the Intrinsic Availability (Ai), which is a measure of the availability of a system in the hypothesis of ideal logistic support I.E. unlimited supplies, instant transportation time, unlimited man power and so on. Ai is a necessary ...the ...eration Availability Ao ...which ...of the Availability ...

As highlighted by some studies of the USA DoD, the Availability Assessment process hasn't received any major innovation since many decades and is now starting to show its age. Through many of these studies, the DoD has evidenced that common reliability and availability analyses will gradually become less effective. The reason of this has been identified in the lack of analysis of the "mechanisms" that causes a fault in an item and ultimately in the system.

20th IMEKO TC4 International Symposium and
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A proposal to update LSA databases for an Operational Availability based on Autonomic Logistic.

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Ruggero De Francesco,
SeTeL s.r.l, via Casamari n.6, 00142, Roma, Italy,
...

Fabio Leccese, Marco Cagnetti
Department of Science, Università degli Studi "Roma Tre", ...Marconi n.446, 00146 Rome, Italy
...

Abstract **– This article analyzes a possible extension of the modern Logistic Support Analysis (LSA) databases such as ASD S3000L in order to support a new view of operational availability based on the categorization of stresses obtained by operational scenarios and applicable to FMMEA (Failure Mode Mechanism Effect Analysis) through the "physics of failure" concept. In order to integrate such methodologies inside the actual ILS (Integrated Logistic Support) process, new database parameters and stress/failure physics categorization classes needs to be defined. This article discusses this problematic and proposes some extensions of the ASD S3000L LSA data model.**

Keywords— Operational Availability; FMMEA; S3000L; Autonomic Logistic.

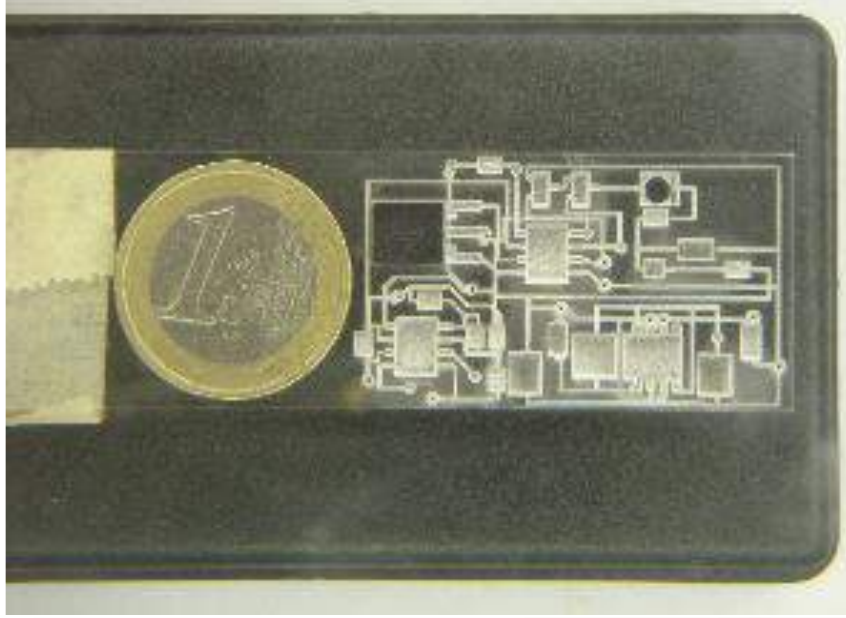
This approach is reflected by the standardized database structure described by the most of the recent international standards for the management of LSA of which the newest is ASD/AIA S3000L; that defines precisely the main "data containers" which have to be used to store and manage such information. The main characteristic is however that most of the data used are derived from historical series collected during the systems life cycle, which represents a measurement of the system characteristics but do not take into consideration the "mechanisms" which governs such data.

The approach is recently showing many limits [4],[5],[6] in the effectiveness of complex system modeling especially when compared with:

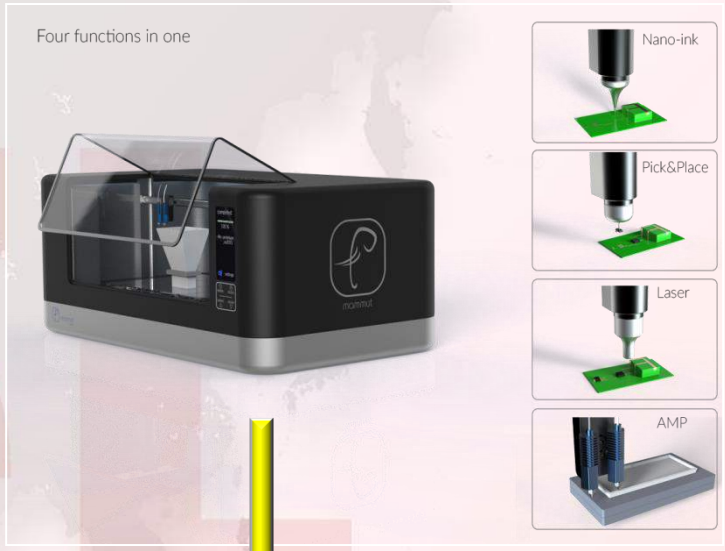
Cooperazione con Università e Centri di ricerca

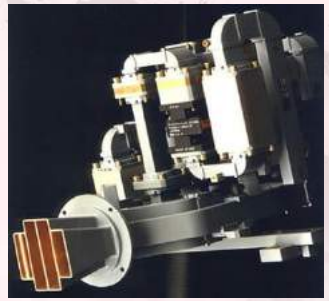
Advanced 3D Manufactoring

The idea concerns the possibility to directly embed commercial chips and deposit highly conductive nano-materials during fabrication, (especially for the internal paths of the device), drastically reducing the manufacturing process to fabricate 3D applications for several purposes (antennas for communications, automotive active parts, smart sensors, customized electronics, etc.).



The laser engraving technique, implemented on plexiglass to tailor both conductive paths and chip housing. The device is part of the Italian patent developed by Se.Te.L., Unoauno and IMM-CNR





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and

Nuovi Robot Agricoli

GRUPPO SeTeL

Nuovi Robot
Agricoli
GEO
MISSION
Auto
GS 1,9m/s
-20
Ricerca
Manual
9m>1

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