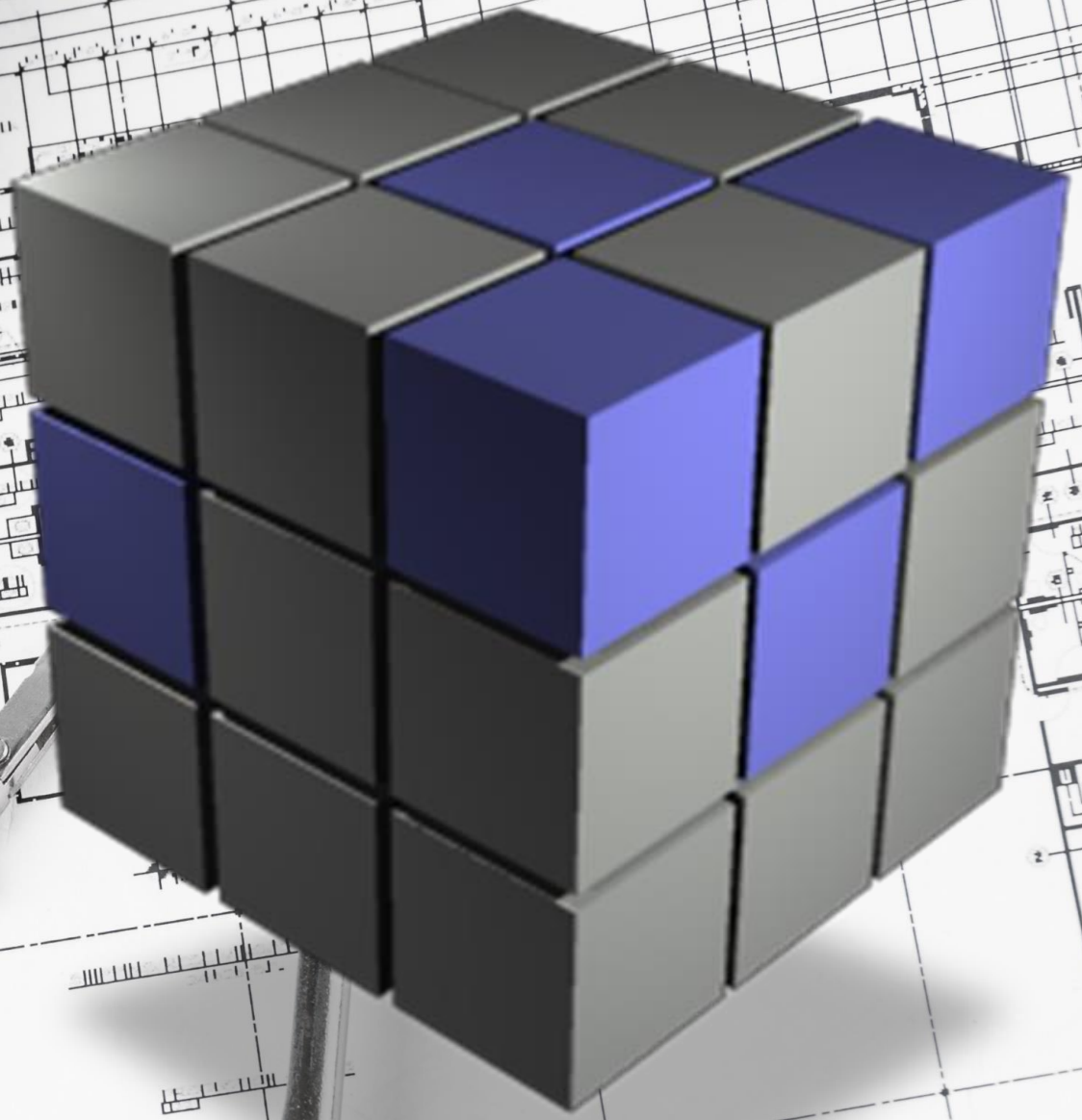
# The Heart and Brain of your Business

# The Role of Architecture and Engineering in Business Operations




**Presenters:**

***Anthony Insolia,***
Managing Partner & Architect,
EnterpriseTM.COM

***Russell S Boyd,***
Director of Enterprise Architecture,
Technatomy Corporation



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***EnterpriseTM.COM***

## Anthony Insolia

Managing Partner EnterpriseTM.COM

Been around the block a few times Worked in Semiconductor Manufacturing, worked in CIO type organizations. Worked five significant business transformation and Enterprise Architecture Initiatives: IBM, DoD, NYC Gov, NYS Gov, and the Department of Veteran Affairs

## Russell S Boyd

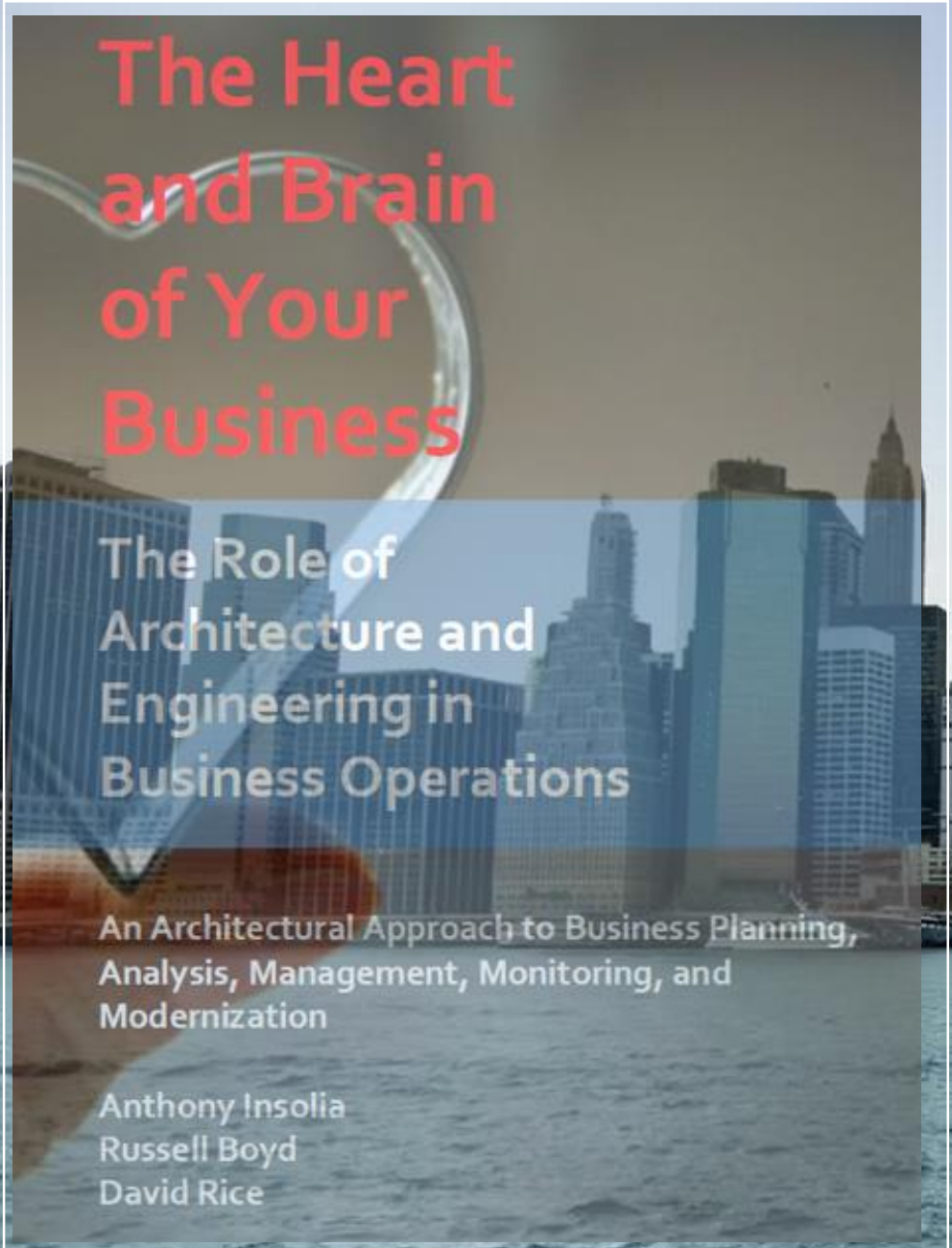
Director of Enterprise Architecture
Technatomy Corporation

Co-Author of "The Heart and Brain of Your Business: The Role of Architecture and Engineering in Business Operations"

Russ has 20+ years of enterprise architecture experience serving multiple industries

## David N. Rice

Managing Partner, EA Frameworks.
For the last 15 years David has been focused on the DoD Architecture Framework (DoDAF), the Federal Enterprise Architecture Framework (FEAF), the Open Group Architecture Framework (TOGAF) and the Zachman Framework. The focus is on aiding efficient production and improving product quality, investment decisions and business processes.




**Our discussion about the role of architecture in day to day business operations, frameworks, and our Periodic Table of Enterprise / Business Elements started in our book where we focused on putting architecture to use for things like:**

- Strategic Planning and Investment Management
- Organization Change Management
- Capability Portfolio Management
- Supply Chain Management
- Performance Monitoring
- Regulatory Compliance
- Revenue Enhancement
- Contract Management
- Risk Management
- Cost Optimization
- Costing

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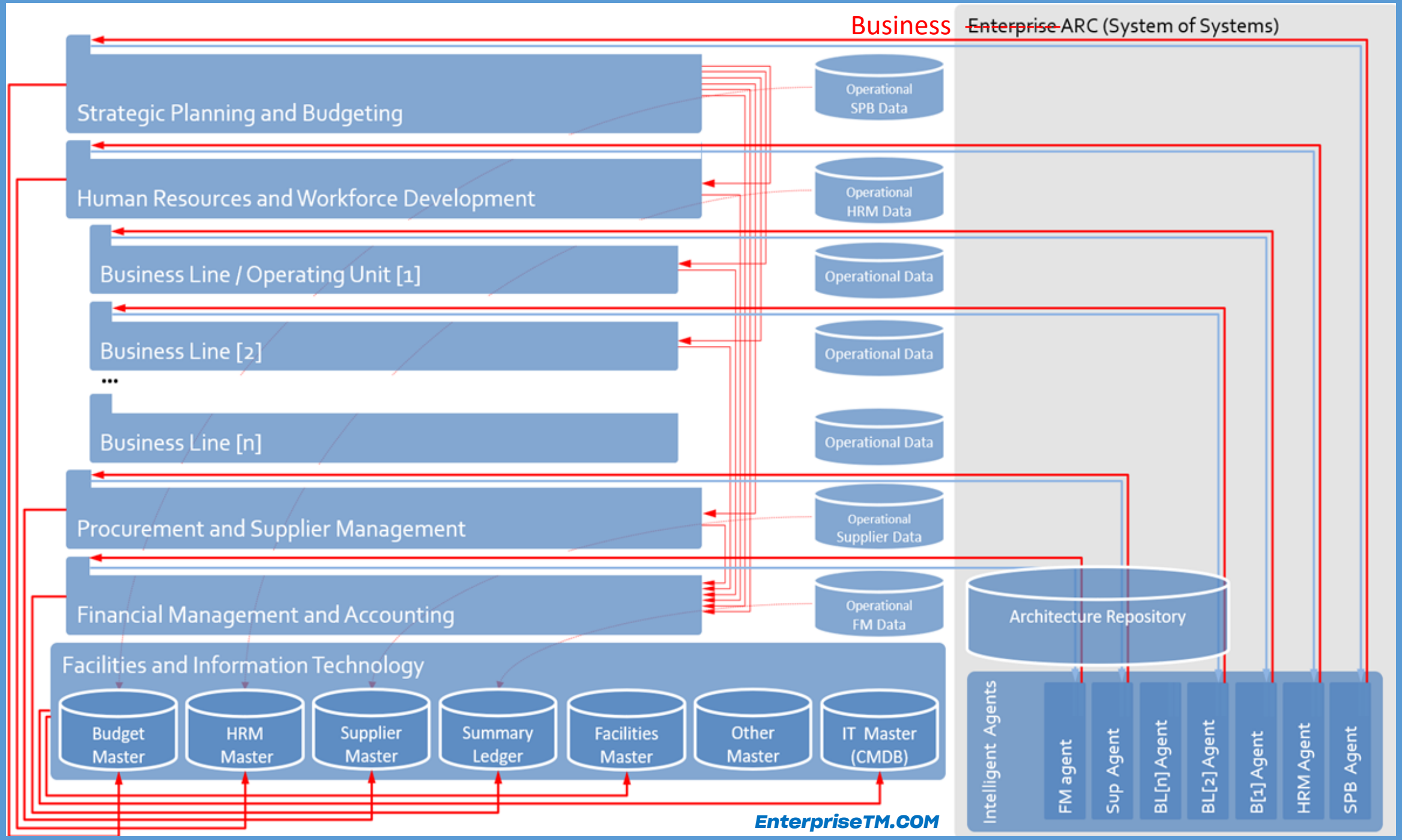
# Bottom Line Up Front (BLUF)

An Architecture repository augmented by Intelligent Agents is the Heart and Brain of your Business


Business ~~Enterprise~~ ARC (System of Systems)
Strategic Planning and Budgeting
Human Resources and Workforce Development
Business Line / Operating Unit [1]
Business Line [2]
...
Business Line [n]
Procurement and Supplier Management
Financial Management and Accounting
Facilities and Information Technology
Budget Master
HRM Master
Supplier Master
Summary Ledger
Facilities Master
Other Master
IT Master (CMDB)
Operational SPB Data
Operational HRM Data
Operational Data
Operational Data
Operational Data
Operational Supplier Data
Operational FM Data
Architecture Repository
Intelligent Agents
FM agent
Sup Agent
BL[n] Agent
BL[2] Agent
B[1] Agent
HRM Agent
SPB Agent
EnterpriseTM.COM

# But this isn't the 'Wizard of OZ'

We need to know how one goes about establishing the heart and brain of their business and we need to know the building blocks of a business. Are there any missing parts?

# We need building blocks and a a construction framework

## Whether a house or a business: Government, Agency, Corporation, Not-for-profit, etc. one needs a construction framework and building blocks

According to the OASIS (Organization for the Advancement of Structured Information Standards) a reference model is "a framework for understanding significant relationships among the entities of some environment, and for the development of consistent standards or specifications supporting that environment"

# Frameworks Leveraged

## The lesser known but most important framework that we leverage is the DOTMLPF framework

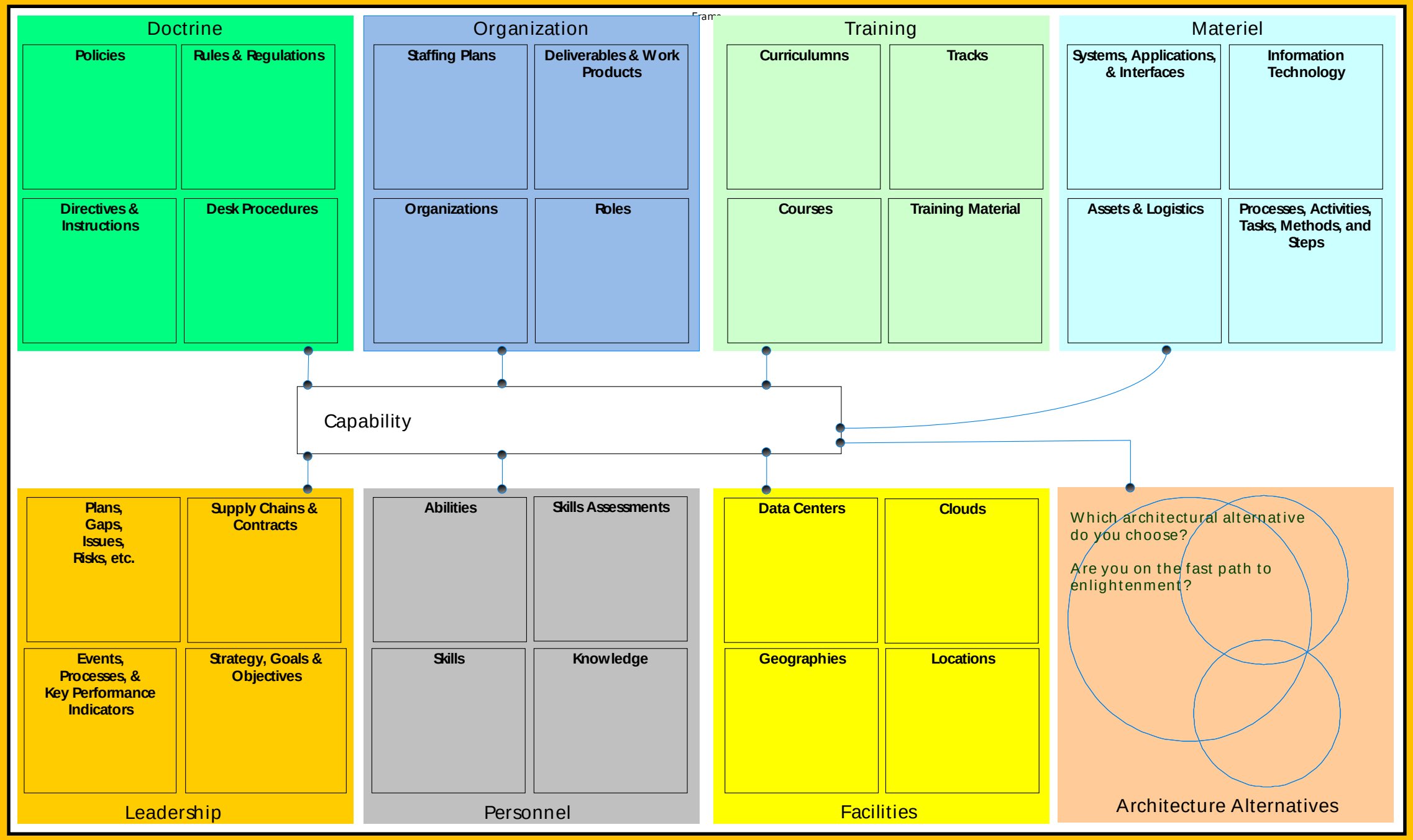
**D**octrine
**O**rganization
**T**raining
**M**ateriel
**L**eadership
**P**ersonnel, and
**F**acilities

**We integrated the DOTMLPF, DODAF, FEAF, and ZACHMAN frameworks adding in a bit of UML**

# Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities (DOTMLPF) Framework

The DOTMLPF framework is holistic and, by its' nature and origins, covers all the elements of a successful mission. It also makes gaps in other frameworks apparent. DOTMLPF is a much better euphemism for architecture than "People, Processes, and Tools"

But we also need to keep things simple and focused on the 'B' in Business, not the 'E' in Enterprise

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# Using the frameworks mentioned, we identified key ingredients

We needed a depiction and way of talking about the ingredients or building blocks of a business

We chose to present them as the Periodic Table presents the elements or building blocks of life.

# Before we unveil our PTOE

## Let's start with a simple fact

| | | | | | | | | | | | | | | | | | |
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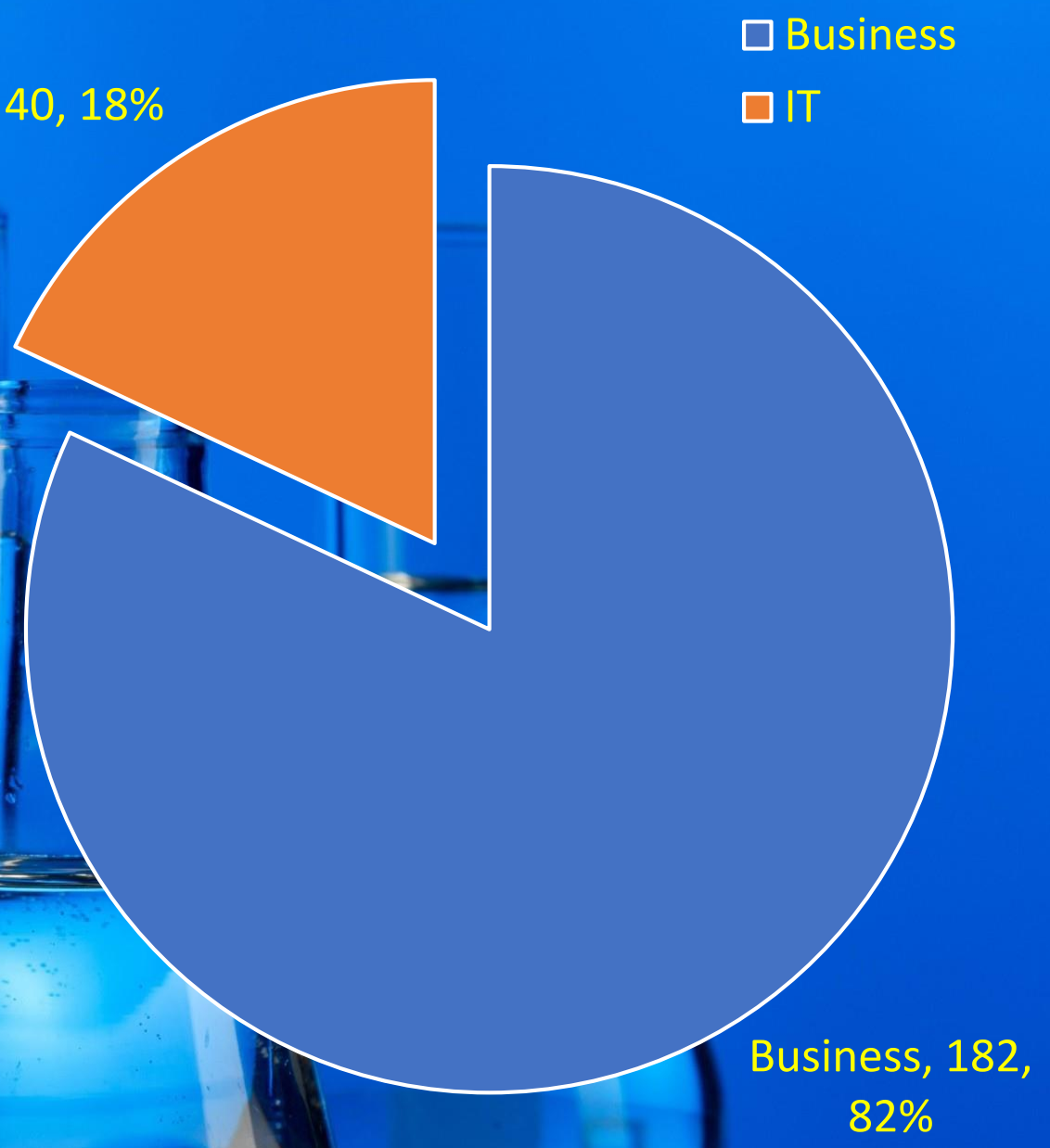
| H 1 | | | | | | | | | | | | | | | | | He 2 |
| Li 3 | Be 4 | | | | | | | | | | | B 5 | C 6 | N 7 | O 8 | F 9 | Ne 10 |
| Na 11 | Mg 12 | | | | | | | | | | | Al 13 | Si 14 | P 15 | S 16 | Cl 17 | Ar 18 |
| K 19 | Ca 20 | Sc 21 | Ti 22 | V 23 | Cr 24 | Mn 25 | Fe 26 | Co 27 | Ni 28 | Cu 29 | Zn 30 | Ga 31 | Ge 32 | As 33 | Se 34 | Br 35 | Kr 36 |
| Rb 37 | Sr 38 | Y 39 | Zr 40 | Nb 41 | Mo 42 | Tc 43 | Ru 44 | Rh 45 | Pd 46 | Ag 47 | Cd 48 | In 49 | Sn 50 | Sb 51 | Te 52 | I 53 | Xe 54 |
| Cs 55 | Ba 56 | 57 - 71 Ln | Hf 72 | Ta 73 | W 74 | Re 75 | Os 76 | Ir 77 | Pt 78 | Au 79 | Hg 80 | Tl 81 | Pb 82 | Bi 83 | Po 84 | At 85 | Rn 86 |
| Fr 87 | Ra 88 | 89 - ... An | Rf 104 | Db 105 | Sg 106 | Bh 107 | Hs 108 | Mt 109 | Ds 110 | Rg 111 | Cn 112 | Nh 113 | Fl 114 | Mc 115 | Lv 116 | Ts 117 | Og 118 |

# Our Periodic Table of Elements is 82% business:

**Business Model**
**Supply Chain**
**Government**
**Acquisition**
**Curriculum**
**Divestiture**
**Capability**
**Authority**
**Business**
**Contract**
**Liability**
**Agency**
**Merger**
**Course**
**Etc.**



# PTOE: Elements/Building Blocks of a Business, Government, Agency, etc.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acc<br>Account | | | | | | | | | | | | | | | | | | Acq<br>Acquisition |
| Act<br>Activity | Adpt<br>Adapter | | | | | | | | | | | Agcy<br>Agency | Agr<br>Agreement | Ans<br>Answer | App<br>Application | Arch<br>Architecture | Asmt<br>Assessment | Asst<br>Asset |
| Asmp<br>Assumption | Auth<br>Authority | | | | | | | | | | | ATO<br>Authority to Operate (ATO) | | Ben<br>Benchmark | Bprc<br>Best Practice | Bus<br>Business | Bar<br>Business Area | Blin<br>Business Line |
| Bmod<br>Business Model | Bsce<br>Business Scenario | Cap<br>Capability | Cat<br>Category | Cert<br>Certificate | Chan<br>Channel | CoA<br>Chart of Accounts | Cit<br>City | Clo<br>Cloud | Coml<br>Communication Link | Comn<br>Communication Node | Comp<br>Component | Cons<br>Constraint | Con<br>Contract | Cos<br>Cost | Cou<br>Country | Cour<br>Course | Cred<br>Credit | Csf<br>Critical Success Factor |
| Cur<br>Curriculum | Cseg<br>Customer Segment | Ddom<br>Data Domain | Datb<br>Database | Delm<br>Data Elements | Dobj<br>Data Objects | Dsto<br>Data Store | Deb<br>Debit | Del<br>Deliverable | Dep<br>Deployment | Dev<br>Device | Dir<br>Directive | Div<br>Divestiture | Enc<br>Enclave | Ent<br>Enterprise | Env<br>Environment | Epc<br>Epic | Evt<br>Event | Exa<br>Exam |
| Exc<br>Exchange | Fac<br>Facility | Fact<br>Facility Type | Fil<br>File | Find<br>Finding | Fie<br>Firewall | FsY<br>Fiscal Year | Fwrk<br>Framework | Fun<br>Function | Gap<br>Gap | Geo<br>Geography | Gol<br>Goal | Gov<br>Government | Hor<br>Horizon | Iex<br>Information Exchange | Ier<br>Information Exchange Requirement | Ini<br>Initiative | Ins<br>Instruction | Int<br>Interface |
| Intc<br>Internal Control | Inv<br>Investment | Invi<br>Investment Item | Iss<br>Issue | Kpi<br>Key Performance Indicator | Law<br>Law | Lia<br>Liability | Lic<br>License | Loc<br>Location | Mar<br>Marker | Maw<br>Material Weakness | Mlvl<br>Maturity Level | Mmod<br>Maturity Model | Mes<br>Measure | Mest<br>Measurement | Mer<br>Merger | Met<br>Methodology | Mec<br>Metric | Mil<br>Milestone |
| Mod<br>Module | Ned<br>Need Line | Npv<br>Net-Present Value | Net<br>Network | Nety<br>Network Type | Not<br>Note | Obj<br>Objective | Opn<br>Operational Node | Opp<br>Opportunity | Org<br>Organization | Orgd<br>Organizational Dependency | Out<br>Outcome | Pac<br>Packet | Pkg<br>Package | Perf<br>Performer | Per<br>Person | Pha<br>Phase | Pla<br>Plan | Pol<br>Policy |
| Por<br>Port | Pos<br>Position | Pri<br>Principle | Proc<br>Process | Prod<br>Product | Prog<br>Program | Proj<br>Project | Qus<br>Question | Que<br>Queue | Rac<br>Rack | Rea<br>Reason | Rec<br>Recommendation | Ref<br>Reference | Reg<br>Regulation | Rep<br>Report | Req<br>Requirement | Rev<br>Revenue | Revs<br>Revenue Stream | Rsk<br>Risk |
| Rmap<br>Roadmap | Rol<br>Role | Rul<br>Rule | Sch<br>Schedule | Sec<br>Security Control | Sen<br>Sensor | Srv<br>Server | Srvc<br>Service | Sla<br>Service Level Agreement | Sig<br>Sign | Ski<br>Skill | Spec<br>Specification | Spr<br>Sprint | Sta<br>Staff-Item | Std<br>Standard | Stdb<br>Standards Body | Sta<br>Status State | Ste<br>Step | Sti<br>Stipulation |
| Sto<br>Story | Strp<br>Strategic Plan | Stra<br>Strategy | Stre<br>Strength | Sagy<br>Subagency | Sbsy<br>Subsystem | SuC<br>Supply Chain | Sys<br>System | Sysn<br>System Node | Sos<br>System of Systems | Tac<br>Tactic | Tag<br>Tag | Tsk<br>Task | Tech<br>Technology | Ter<br>Term | TesP<br>Test Plan | TesR<br>Test Record | TesS<br>Test Script | The<br>Theme |
| Thr<br>Threat | Tie<br>Tier | Tim<br>Timeline | Tol<br>Tool | Trk<br>Track | Tpa<br>Trading Partner Agreement | Tmat<br>Training Material | Tpla<br>Transition Plan | Url<br>URL | Ugrp<br>User Group | Val<br>Value | Vpro<br>Value Proposition | Vis<br>Vision | Wea<br>Weakness | Webs<br>Web Service | Wpro<br>Work Product | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Act/A<br>Activity / Application | Act/D<br>Activity / Data Object | Act/E<br>Activity / Event | Act/P<br>Activity / Policy | Act/R<br>Activity / Role | Act/S<br>Activity / System | Act/T<br>Activity / Training | App/Q<br>Application / Question | App/R<br>Application / Risk | Ato/Sec<br>ATO / Security Control | B/BC<br>Business / Business (Competitor) | B/BP<br>Business / Business (Partner) | Cap/S<br>Capability / Service | Ev/Do<br>Event / Data Object | O/R/R<br>Organization / Role / Responsibilities | O/R/S<br>Organization / Role / Staffing |
| Pro/A<br>Process / Application | Pro/D<br>Process / Data Object | Pro/E<br>Process / Event | Pro/P<br>Process / Policy | Pro/R<br>Process / Role | Pro/S<br>Process / System | Pro/T<br>Process / Training | Rol/S<br>Role / Skill | S/Org<br>Service / Organization | S/Pro<br>Service / Process | | | | | | |

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# Now we can talk about putting the PTOE and architecture to use

## on a daily, weekly, monthly, quarterly, and yearly basis

# Using the architecture to do an simple analysis of Alternatives

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acc Account | | | | | | | | | | | | | | | | | | Acq Acquisition |
| Activity | Adpt Adapter | | | | | | | | | | | Agcy Agency | Agr Agreement | Ans Answer | App Application | Arch Architecture | Asmt Assessment | Asst Asset |
| Asmp Assumption | Auth Authority | | | | | | | | | | | ATO Authority to Operate (ATO) | | Ben Benchmark | Bprc Best Practice | Bus Business | Bar Business Area | Blin Business Line |
| Bmod Business Model | Bsce Business Scenario | Cap Capability | Cat Category | Cert Certificate | Chan Channel | CoA Chart of Accounts | Cit City | Clo Cloud | Coml Communication Link | Comn Communication Node | Comp Component | Cons Constraint | Con Contract | Cos Cost | Cou Country | Cour Course | Cred Credit | Csf Critical Success Factor |
| Cur Curriculum | Cseg Customer Segment | Ddom Data Domain | Datb Database | Delm Data Elements | Dobj Data Objects | Dsto Data Store | Deb Debit | Del Deliverable | Dep Deployment | Dev Device | Dir Directive | Div Divestiture | Enc Enclave | Ent Enterprise | Env Environment | Epc Epic | Evt Event | Exa Exam |
| Exc Exchange | Fac Facility | Fact Facility Type | Fil File | Find Finding | Fie Firewall | FsY Fiscal Year | Fwrk Framework | Feature / Function | Gap Gap | Geo Geography | Gol Goal | Gov Government | Hor Horizon | Iex Information Exchange | Ier Information Exchange Requirement | Ini Initiative | Ins Instruction | Int Interface |
| Intc Internal Control | Inv Investment | Invi Investment Item | Iss Issue | Kpi Key Performance Indicator | Law Law | Lia Liability | Lic License | Loc Location | Mar Marker | Maw Material Weakness | Mlvl Maturity Level | Mmod Maturity Model | Mes Measure | Mest Measurement | Mer Merger | Met Methodology | Mec Metric | Mil Milestone |
| Mod Module | Ned Need Line | Npv Net-Present Value | Net Network | Nety Network Type | Not Note | Obj Objective | Opn Operational Node | Opp Opportunity | Org | Orgd Organizational Dependency | Out Outcome | Pac Packet | Pkg Package | Perf Performer | Per Person | Pha Phase | Pla Plan | Pol Policy |
| Por Port | Pos Position | Pri Principle | Process | Product | Prog Program | Proj Project | Qus Question | Que Queue | Rac Rack | Rea Reason | Rec Recommendation | Ref Reference | Reg Regulation | Rep Report | Req Requirement | Rev Revenue | Revs Revenue Stream | Rsk Risk |
| Rmap Roadmap | Rol Role | Rul Rule | Sch Schedule | Sec Security Control | Sen Sensor | Srv Server | Srvc Service | Sla Service Level Agreement | Sig Sign | Ski Skill | Spec Specification | Spr Sprint | Sta Staff-Item | Standard (TRM) | Stdb Standards Body | Sta Status State | Ste Step | Sti Stipulation |
| Sto Story | Strp Strategic Plan | Stra Strategy | Stre Strength | Sagy Subagency | Sbsy Subsystem | SuC Supply Chain | System | Sysn System Node | Sos System of Systems | Tac Tactic | Tag Tag | Task | Tech Technology | Ter Term | TesP Test Plan | TesR Test Record | TesS Test Script | The Theme |
| Thr Threat | Tie Tier | Tim Timeline | Tol Tool | Trk Track | Tpa Trading Partner Agreement | Tmat Training Material | Tpla Transition Plan | Url URL | Ugrp User Group | Val Value | Vpro Value Proposition | Vis Vision | Wea Weakness | Webs Web Service | Wpro Work Product | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Act/A Activity / Application | Act/D Activity / Data Object | Act/E Activity / Event | Act/P Activity / Policy | Act/R Activity / Role | Act/S Activity / System | Act/T Activity / Training | App/Q Application / Question | App/R Application / Risk | Ato/Sec ATO / Security Control | B/BC Business / Business (Competitor) | B/BP Business / Business (Partner) | Cap/S Capability / Service | Ev/Do Event / Data Object | O/R/R Organization / Role / Responsibilities | O/R/S Organization / Role / Staffing |
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# Using the architecture to do a full analysis of alternatives (with cost)

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acc Account | | | | | | | | | | | | | | | | | | Acq Acquisition |
| Activity | Adpt Adopter | | | | | | | | | | | Agcy Agency | Agr Agreement | Ans Answer | App Application | Arch Architecture | Asmt Assessment | Asst Asset |
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| Cur Curriculum | Cseg Customer Segment | Ddom Data Domain | Datb Database | Delm Data Elements | Dobj Data Objects | Dsto Data Store | Deb Debit | Del Deliverable | Dep Deployment | Dev Device | Dir Directive | Div Divestiture | Enc Enclave | Ent Enterprise | Env Environment | Epc Epic | Evt Event | Exa Exam |
| Exc Exchange | Fac Facility | Fact Facility Type | Fil File | Find Finding | Fie Firewall | FsY Fiscal Year | Fwrk Framework | Fun Function | Gap Gap | Geo Geography | Gol Goal | Gov Government | Hor Horizon | Iex Information Exchange | Ier Information Exchange Requirement | Ini Initiative | Ins Instruction | Int Interface |
| Intc Internal Control | Inv Investment | Invi Investment Item | Iss Issue | Kpi Key Performance Indicator | Law Law | Lia Liability | Lic License | Feature / Function | Mar Marker | Maw Material Weakness | Mlvl Maturity Level | Mmod Maturity Model | Measure | Mest Measurement | Mer Merger | Metric | Mec Metric | Mil Milestone |
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| Act/A Activity / Application | Act/D Activity / Data Object | Act/E Activity / Event | Act/P Activity / Policy | Act/R Activity / Role | Act/S Activity / System | Act/T Activity / Training | App/Q Application / Question | App/R Application / Risk | Ato/Sec ATO / Security Control | B/BC Business / Business (Competitor) | B/BP Business / Business (Partner) | Cap/S Capability / Service | Ev/Do Event / Data Object | O/R/R Organization / Role / Responsibilities | O/R/S Organization / Role / Staffing |
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# On a yearly basis architecture can be used to develop the Strategic Plan & Budget

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acc<br>Account | | | | | | | | | | | | | | | | | | Acq<br>Acquisition |
| Act<br>Activity | Adpt<br>Adapter | | | | | | | | | | | | Agr<br>Agreement | Ans<br>Answer | App<br>Application | Arch<br>Architecture | Assessment<br>PEST<br>SWOT | Asst<br>Asset |
| Asmp<br>Assumption | Auth<br>Authority | | | | | | | | | | | ATO<br>Authority to Operate (ATO) | | Ben<br>Benchmark | Best Practice | Business | Business Area | Business Line |
| Business Model | Bsce<br>Business Scenario | Cap<br>Capability | Cat<br>Category | Cert<br>Certificate | Chan<br>Channel | CoA<br>Chart of Accounts | Cit<br>City | Clo<br>Cloud | Coml<br>Communication Link | Comn<br>Communication Node | Comp<br>Component | Cons<br>Constraint | Con<br>Contract | Cost | Cou<br>Country | Cour<br>Course | Cred<br>Credit | Critical Success Factor |
| Cur<br>Curriculum | Cseg<br>Customer Segment | Ddom<br>Data Domain | Datb<br>Database | Delm<br>Data Elements | Dobj<br>Data Objects | Dsto<br>Data Store | Deb<br>Debit | Del<br>Deliverable | Dep<br>Deployment | Dev<br>Device | Dir<br>Directive | Div<br>Divestiture | Enc<br>Enclave | Enterprise | Env<br>Environment | Epc<br>Epic | Evt<br>Event | Exa<br>Exam |
| Exc<br>Exchange | Fac<br>Facility | Fact<br>Facility Type | Fil<br>File | Find<br>Finding | Fie<br>Firewall | FSY<br>Fiscal Year | Fwrk<br>Framework | Fun<br>Function | Gap | Geo<br>Geography | Goal | Gov<br>Government | Hor<br>Horizon | Iex<br>Information Exchange | Ier<br>Information Exchange Requirement | Ini<br>Initiative | Ins<br>Instruction | Int<br>Interface |
| Intc<br>Internal Control | Investment | Investment Item | Iss<br>Issue | KPI | Law | Lia<br>Liability | Lic<br>License | Loc<br>Location | Mar<br>Marker | Material Weakness | Mlvl<br>Maturity Level | Mmod<br>Maturity Model | Measure | Measure-ment | Mer<br>Merger | Met<br>Methodology | Metric | Mil<br>Milestone |
| Mod<br>Module | Ned<br>Need Line | NPV | Net<br>Network | Nety<br>Network Type | Not<br>Note | Objective | Opn<br>Operational Node | Opp<br>Opportunity | Org<br>Organization | Orgd<br>Organizational Dependency | Out<br>Outcome | Pac<br>Packet | Pkg<br>Package | Perf<br>Performer | Per<br>Person | Pha<br>Phase | Pla<br>Plan | Pol<br>Policy |
| Por<br>Port | Pos<br>Position | Pri<br>Principle | Proc<br>Process | Prod<br>Product | Prog<br>Program | Proj<br>Project | Qus<br>Question | Que<br>Queue | Rac<br>Rack | Rea<br>Reason | Rec<br>Recommendation | Ref<br>Reference | Reg<br>Regulation | Rep<br>Report | Req<br>Requirement | Revenue | Revs<br>Revenue Stream | Risk |
| Roadmap EG Product and Technology | Rol<br>Role | Rul<br>Rule | Sch<br>Schedule | Sec<br>Security Control | Sen<br>Sensor | Srv<br>Server | Srvc<br>Service | Sla<br>Service Level Agreement | Sig<br>Sign | Ski<br>Skill | Spec<br>Specification | Spr<br>Sprint | Sta<br>Sprint-Item | Std<br>Standard | Stdb<br>Standards Body | Sta<br>Status State | Ste<br>Step | Sti<br>Stipulation |
| Sto<br>Story | Strategic Plan | Strategy | Stre<br>Strength | Sagy<br>Subagency | Sbsy<br>Subsystem | SuC<br>Supply Chain | Sys<br>System | Sysn<br>System Node | Sos<br>System of Systems | Tactic | Tag<br>Tag | Tsk<br>Task | Tech<br>Technology | Ter<br>Term | TesP<br>Test Plan | TesR<br>Test Record | TesS<br>Test Script | The<br>Theme |
| Thr<br>Threat | Tie<br>Tier | Tim<br>Timeline | Tol<br>Tool | TRK<br>Track | Tpa<br>Trading Partner Agreement | Tmat<br>Training Material | Tpla<br>Transition Plan | Url<br>URL | Ugrp<br>User Group | Val<br>Value | Value Propostion | Vision | Wea<br>Weakness | Webs<br>Web Service | Wpro<br>Work Product | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Act/A<br>Activity / Application | Act/D<br>Activity / Data Object | Act/E<br>Activity / Event | Act/P<br>Activity / Policy | Act/R<br>Activity / Role | Act/S<br>Activity / System | Act/T<br>Activity / Training | App/Q<br>Application / Question | App/R<br>Application / Risk | Ato/Sec<br>ATO / Security Control | B/BC<br>Business / Business (Competitor) | B/BP<br>Business / Business (Partner) | Cap/S<br>Capability / Service | Ev/Do<br>Event / Data Object | O/R/R<br>Organization / Role / Responsibilities | O/R/S<br>Organization / Role / Staffing |
| Pro/A<br>Process / Application | Pro/D<br>Process / Data Object | Pro/E<br>Process / Event | Pro/P<br>Process / Policy | Pro/R<br>Process / Role | Pro/S<br>Process / System | Pro/T<br>Process / Training | Rol/S<br>Role / Skill | S/Org<br>Service / Organization | S/Pro<br>Service / Process | | | | | | |

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# Using the architecture in Acquisition Programs

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acc Account | | | | | | | | | | | | | | | | | | Acq Acquisition |
| Activity | Adpt Adapter | | | | | | | | | | | Agcy Agency | Agr Agreement | Ans Answer | App Application | Arch Architecture | Asmt Assessment | Asst Asset |
| Asmp Assumption | Auth Authority | | | | | | | | | | | ATO Authority to Operate (ATO) | | Ben Benchmark | Bprc Best Practice | Bus Business | Bar Business Area | Blin Business Line |
| Bmod Business Model | Bsce Business Scenario | Capability | Cat Category | Cert Certificate | Chan Channel | CoA Chart of Accounts | Cit City | Clo Cloud | Coml Communication Link | Comn Communication Node | Comp Component | Cons Constraint | Contract | Cost | Course | Cour Course | Cred Credit | Csf Critical Success Factor |
| Cur Curriculum | Cseg Customer Segment | Ddom Data Domain | Datb Database | Delm Data Elements | Dobj Data Objects | Dsto Data Store | Deb Debit | Del Deliverable | Dep Deployment | Dev Device | Dir Directive | Div Divestiture | Enc Enclave | Ent Enterprise | Env Environment | Epc Epic | Evt Event | Exa Exam |
| Exc Exchange | Fac Facility | Fact Facility Type | Fil File | Find Finding | Fie Firewall | FsY Fiscal Year | Fwrk Framework | Fun Function | Gap Gap | Geo Geography | Gol Goal | Gov Government | Hor Horizon | Iex Information Exchange | Ier Information Exchange Requirement | Ini Initiative | Ins Instruction | Int Interface |
| Intc Internal Control | Inv Investment | Invi Investment Item | Iss Issue | Kpi Key Performance Indicator | Law Law | Lia Liability | Lic License | Loc Location | Mar Marker | Maw Material Weakness | Mlvl Maturity Level | Mmod Maturity Model | Mes Measure | Mest Measurement | Mer Merger | Met Methodology | Mec Metric | Mil Milestone |
| Mod Module | Ned Need Line | Npv Net-Present Value | Net Network | Nety Network Type | Not Note | Obj Objective | Opn Operational Node | Opp Opportunity | Org Organization | Orgd Organizational Dependency | Out Outcome | Pac Packet | Pkg Package | Person | Per Person | Pha Phase | Pla Plan | Policy |
| Por Port | Pos Position | Pri Principle | Proc Process | Prod Product | Prog Program | Proj Project | Qus Question | Que Queue | Rac Rack | Rea Reason | Rec Recommendation | Ref Reference | Reg Regulation | Rep Report | Req Requirement | Rev Revenue | Revs Revenue Stream | Rsk Risk |
| Rmap Roadmap | Rol Role | Rul Rule | Sch Schedule | Sec Security Control | Sen Sensor | Srv Server | Srvc Service | Sla Service Level Agreement | Sig Sign | Ski Skill | Spec | Spr Sprint | Staff-item | Standard | Stdb Standards Body | Sta Status State | Ste Step | Sti Stipulation |
| Sto Story | Strp Strategic Plan | Stra Strategy | Stre Strength | Sagy Subagency | Sbsy Subsystem | SuC Supply Chain | System | Sysn System Node | System of Systems | Tac Tactic | Tag Tag | Tsk Task | Tech Technology | Term | TesP Test Plan | TesR Test Record | TesS Test Script | The Theme |
| Thr Threat | Tie Tier | Tim Timeline | Tool | Trk Track | Tpa Trading Partner Agreement | Tmat Training Material | Tpla Transition Plan | Url URL | Ugrp User Group | Val Value | Vpro Value Proposition | Vis Vision | Wea Weakness | Webs Web Service | Wpro Work Product | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Act/A Activity / Application | Act/D Activity / Data Object | Act/E Activity / Event | Act/P Activity / Policy | Act/R Activity / Role | Act/S Activity / System | Act/T Activity / Training | App/Q Application / Question | App/R Application / Risk | Ato/Sec ATO / Security Control | B/BC Business / Business (Competitor) | B/BP Business / Business (Partner) | Cap/S Capability / Service | Ev/Do Event / Data Object | O/R/R Organization / Role / Responsibilities | O/R/S Organization / Role / Staffing |
| Pro/A Process / Application | Pro/D Process / Data Object | Pro/E Process / Event | Pro/P Process / Policy | Pro/R Process / Role | Pro/S Process / System | Pro/T Process / Training | Rol/S Role / Skill | S/Org Service / Organization | S/Pro Service / Process | | | | | | |

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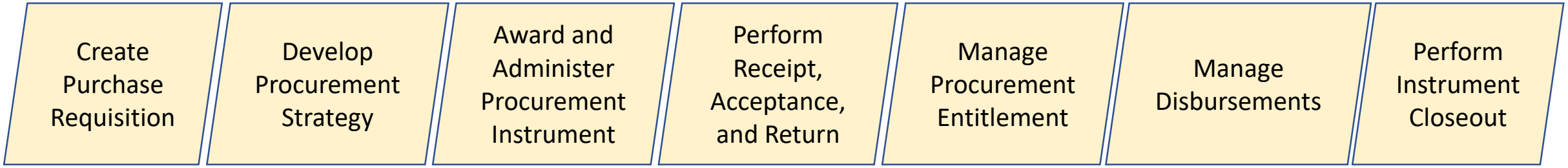
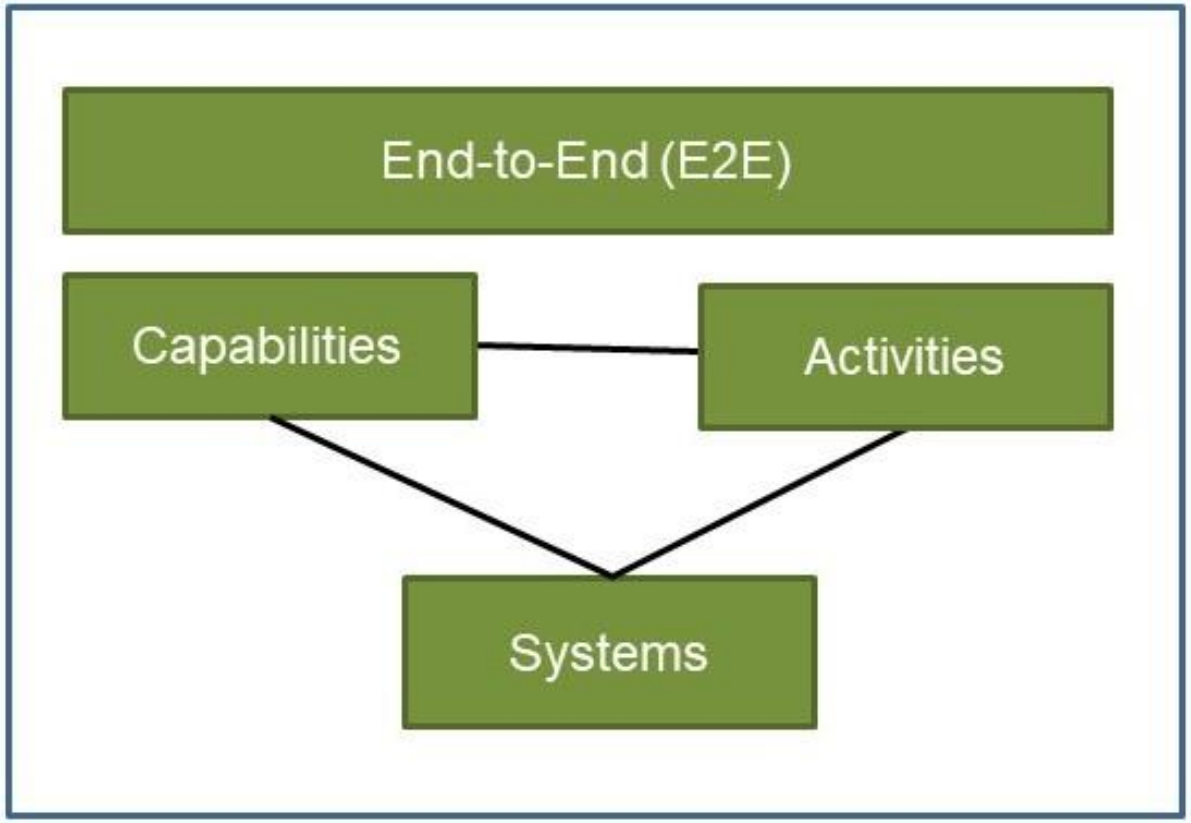
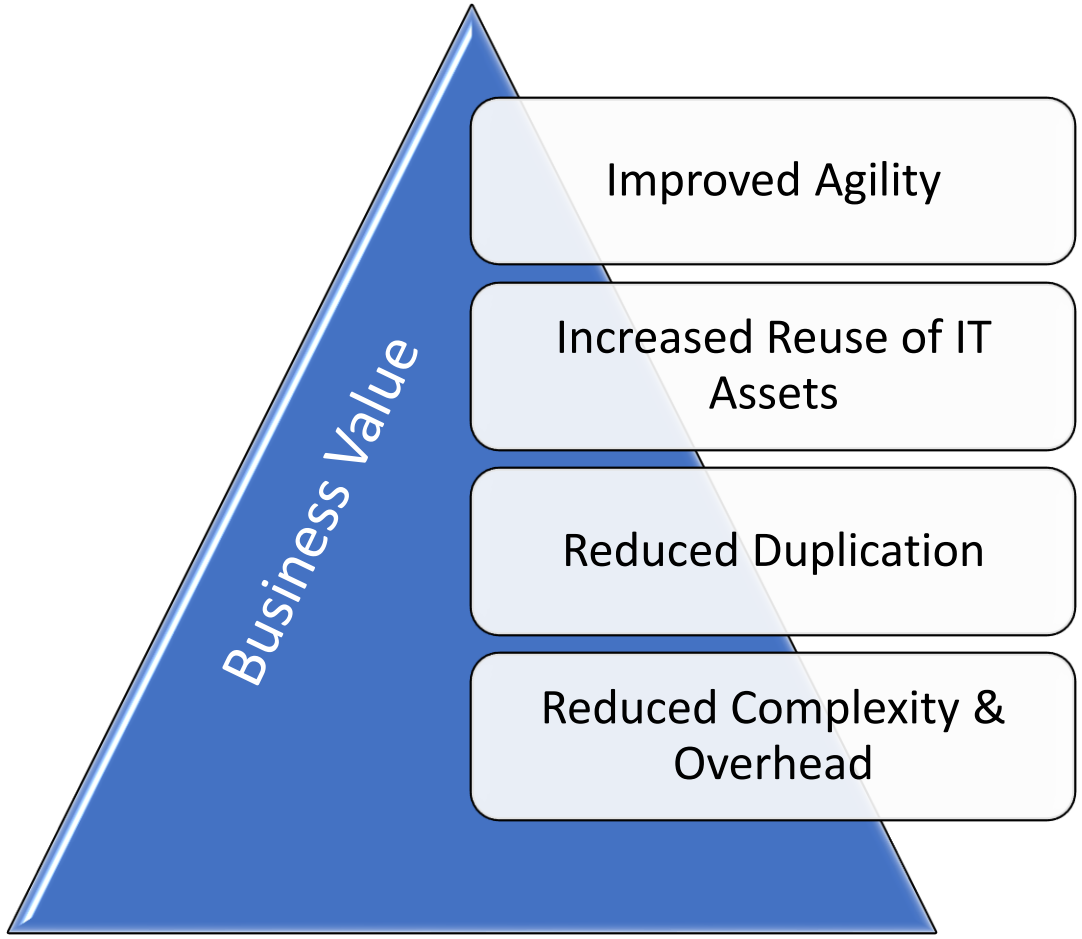
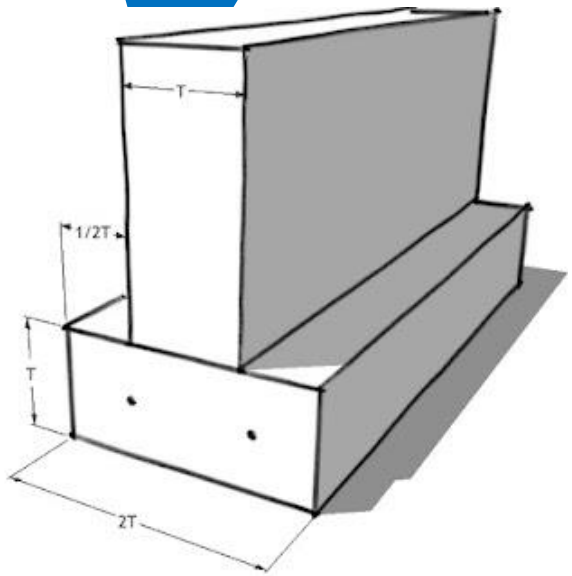

Create Purchase Requisition
Develop Procurement Strategy
Award and Administer Procurement Instrument
Perform Receipt, Acceptance, and Return
Manage Procurement Entitlement
Manage Disbursements
Perform Instrument Closeout


End-to-End (E2E)
Capabilities
Activities
Systems


Business Value
Improved Agility
Increased Reuse of IT Assets
Reduced Duplication
Reduced Complexity & Overhead

# Summary



Attic
Second Floor
First Floor
Basement Level
Garage
Family Room+Library – 371 sq ft.
Dining Room+Living Room+Kitchen – 898 sq
Pantry+Portion of Kitchen – 156 sqf
Mud room is 154 sq ft.
First floor w/ Mud room is 1579 sq ft.
Second floor is 1425 sq ft.
Attic is 1425 sq ft.
Garage attic is 440 sq ft.
Total finished space is 3004 sq ft.
Need to think about solar panels and possibly geo-thermal heating
2017 Budget
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Total