



# PRE-BID MEETING ICB#11: Supply and Installation of Hardware, Software and Associated Services for M-Cloud Phase II

E-GOVERNMENT CENTER



CHIȘINĂU  
11<sup>th</sup> AUGUST, 2014

# AGENDA

- Objectives of the meeting
- Timeline of the ICB#11
- Overview of the MC2 technical specifications
  - MC1 status
  - MC2 technical specs
  - MC2 key components
  - MC2 evaluation
- Questions and Answers received so far
- Overview of the procurement process

# OBJECTIVES FOR THIS MEETING

The purpose of the this meeting is to clarify issues and answer questions on any matter that may be raised at this stage, with particular attention to issues related to the Technical Requirements.

# TIMELINE OF THE ICB#11

- Bid launched on **July 14<sup>th</sup>, 2014**
- Pre-bid meeting – **August 11<sup>th</sup>, 2014**
- Deadline for clarifications questions from bidders – **August 25<sup>th</sup>, 2014**
- Deadline for submitting bids and bid opening – **September 15<sup>th</sup>, 2014 at 15:00.**

# MCloud® – GOVERNMENTAL SHARED TECHNOLOGICAL PLATFORM



GOVERNMENTAL SHARED  
TECHNOLOGICAL PLATFORM

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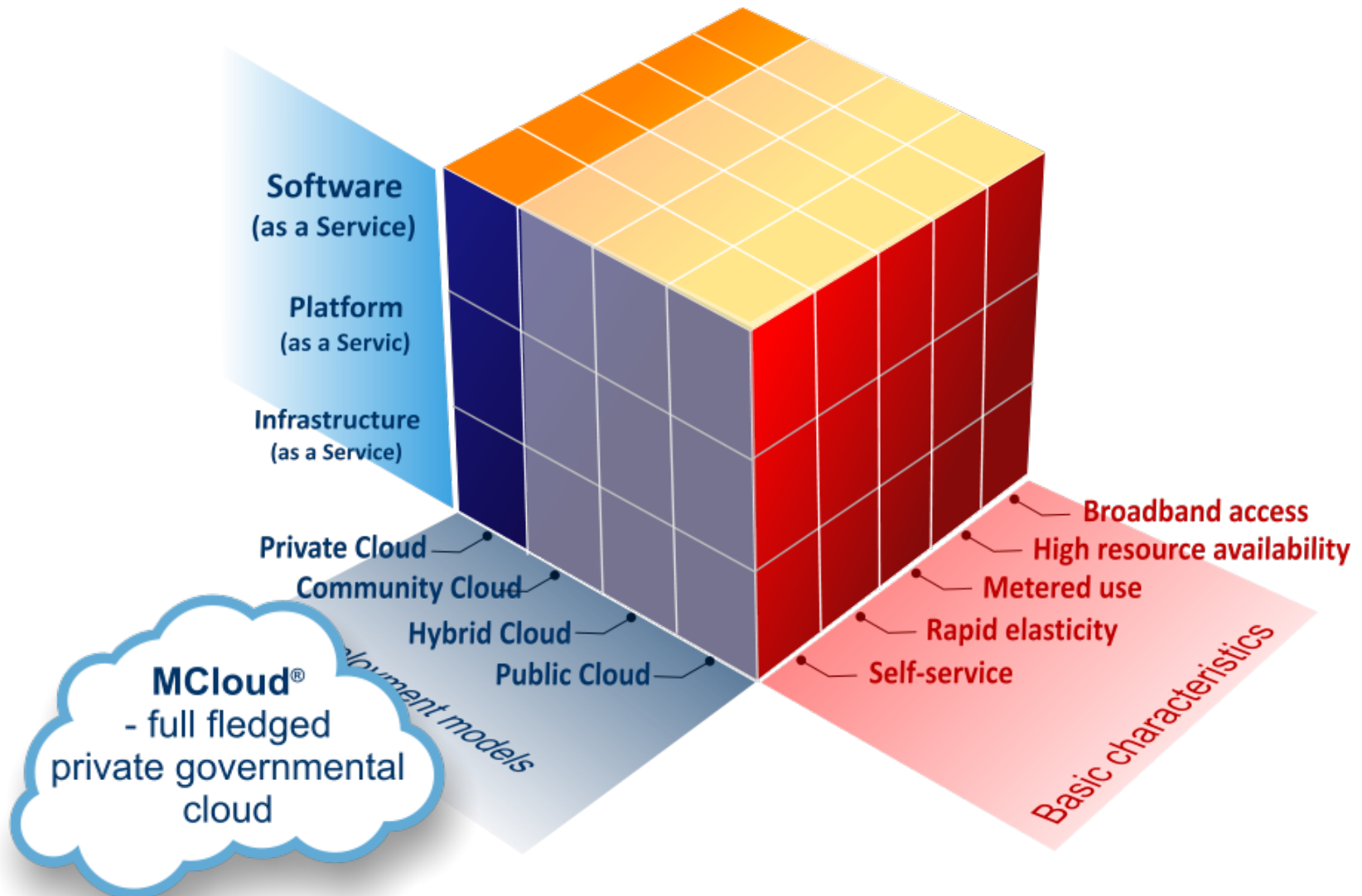
MCloud® is the governmental cloud computing environment for hosting and efficient operations of governmental information systems

# ELECTRONIC SERVICES INFRASTRUCTURE



**MCloud®**  
from 02/2013

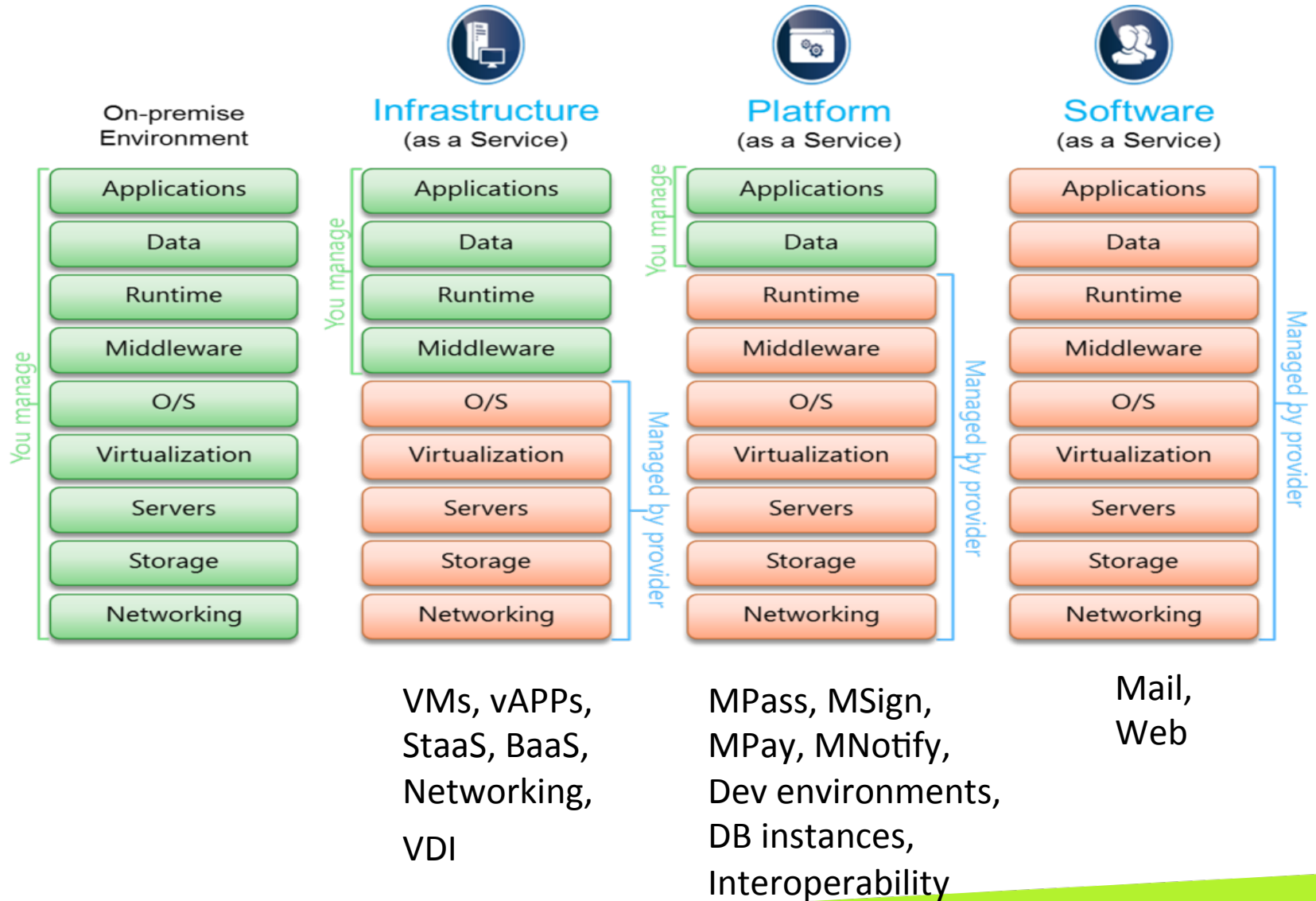
# MCloud® – PRIVATE GOVERNMENTAL CLOUD



# MCloud ADVANTAGES

- Cost efficiency
- Efficient use of IT resources
  - Hardware resource sharing
  - Efficient use of software licenses
- Better performance of information systems
  - Scalability
  - Optimized data exchange process
  - Higher resilience and availability
- Green IT
  - Only from savings on electricity feeding governmental datacenters we can implement 2 new services annually.
- Better security

# CLOUD SERVICE CATEGORIES



- GOVERNMENT DECISION Nr. 710 from 20.09.2011 regarding Strategic Program for Governance Technological Modernization (e-Transformation)
- GOVERNMENT DECISION Nr. 128 from 20.02.2014 regarding governmental shared technological platform (MCloud)
  - First option for hosting information systems for governmental authorities

## **Uptake:**

~ 20 state authorities

~ 40 virtual organizations/datacenters

~ 600 virtual machines

## **Services:**

- IaaS – 90%
- PaaS, SaaS – 10%

## MC2 OBJECTIVES

- The major objective is **the extension of the current government private cloud** to provide additional capacity in a second data center, with seamless operation and management across all MCloud infrastructure and equipment.
- The second objective of the Purchaser is **the implementation of a storage, backup solution** as part of the MCloud platform in order to provide the full range of Storage-as-a-Service, Backup-as-a-Service services.

# MC2 TECHNICAL SPECIFICATIONS

- **2.1 Hardware, software and associated services for MC2**
  - C1. Cloud Computing - Technical Integration Requirements
  - C2. Cloud Computing Software Infrastructure – General Requirements
  - C3. Cloud Computing Software Infrastructure – Virtualization Platform Requirements
  - C4. Cloud Computing Software Infrastructure – Cloud Management Requirements
  - C5. Cloud Computing Software Infrastructure – Resource Management and Self-Service Requirements
  - C6. Cloud Computing Software Infrastructure – Storage as a-Service Requirements
  - C7. Cloud Computing Software Infrastructure – Metering and Billing Requirements
  - C8. Cloud Computing Software Infrastructure – Security Requirements
  - C9. Cloud Computing Software Infrastructure – Site Recovery and Replication Requirements
  - BA. Backup and Archiving Requirements
  - H1. Hardware – General Requirements
  - H2. Hardware – Processor Requirements
  - H3. Hardware – Network Requirements
  - H4. Hardware – Storage Requirements
  - H5. Hardware – Tape Library Requirements
  - H6. Hardware – Operational Management Platform Requirements
  - H7. Hardware – Other Requirements
  - DC. Datacenter – Datacenter Requirements
  - S1. Software licenses Requirements

# MC2 TECHNICAL SPECIFICATIONS

- **2.1 Hardware, software and associated services for MC2**
  - H1. Hardware – General Requirements
    - hardware must be installed in both MC1 and MC2 datacenters
  - H2. Hardware – Processor Requirements
  - H3. Hardware – Network Requirements
    - High speed connection between MC1 and MC2
    - Security appliances NGFW, DDoS
  - H4. Hardware – Storage Requirements
    - Tiered storage
    - Metropolitan area storage clustering
  - H5. Hardware – Tape Library Requirements
    - Min. 2PB initially, cartridges and slots for 3PB, extensible up to 10PB without additional eq, maximum extensibility 30PB
  - H6. Hardware – Operational Management Platform Requirements
  - H7. Hardware – Other Requirements
  - DC. Datacenter – Datacenter Requirements
    - New Modular datacenter with all necessary infrastructures
    - additional minimum 30% of space for additional equipment

# MC2 TECHNICAL SPECIFICATIONS

- **2.1 Hardware, software and associated services for MC2**
  - **C1. Cloud Computing - Technical Integration Requirements**
    - Full functional turnkey solution
    - MC1 and MC2 should work as a single cloud environment
    - MC1 assets to be portable and ported to MC2
  - **C2. Cloud Computing Software Infrastructure – General Requirements**
    - Vmware and Microsoft - to protect investments
  - **C3. Cloud Computing Software Infrastructure – Virtualization Platform Requirements**
  - **C4. Cloud Computing Software Infrastructure – Cloud Management Requirements**
    - Centralized management for MC1 and MC2 resources
  - **C5. Cloud Computing Software Infrastructure – Resource Management and Self-Service Requirements**
    - Self-service portal to provide access to all MCloud services
    - Integration with MPass, MLog, MNotify
  - **C6. Cloud Computing Software Infrastructure – Storage as a-Service Requirements**
    - More storage related services for authorities
  - **C7. Cloud Computing Software Infrastructure – Metering and Billing Requirements**
    - Integration with MPay
  - **C8. Cloud Computing Software Infrastructure – Security Requirements**
    - Security Information and Event Management (SIEM)
  - **C9. Cloud Computing Software Infrastructure – Site Recovery and Replication Requirements**
    - Better business continuity characteristics
  - **BA. Backup and Archiving Requirements**
    - Integration with Tape library
    - Backup solution
    - Archiving solution (optional)

# MC2 REQUIREMENTS FOR IMPLEMENTATION

- **2.2 Requirements for Implementation**
  - I1. Implementation – Staff Qualifications, Project Management, Training and Documentation
  - I2. Implementation – Testing and Acceptance
  - I3. Implementation – Warranty

# MC2 : REQUIREMENTS TO BE MET BY THE SYSTEM

The requirements listed in the bidding document are labeled using the following convention:

**XY.nn[\*]**

where:

- *X* – is one or two letters representing the lot (C – Cloud Computing - Software Infrastructure and Integration Services, H – Hardware and Hardware Management, BA – Backup and Archiving Platform, DC – Datacenter, S – Software Licenses for MCloud Platform)
- *Y* – is a number, representing the section number,
- *nn* – the unique ID of the requirement within the chapter,
- *\** – indicates that the requirement is a desirable (non-mandatory) one.

# MC2 EVALUATION

**ITB 28.4** An Evaluated Bid Score ( $B$ ) will be calculated for each responsive bid using the following formula, which permits a comprehensive assessment of the bid price and the technical merits of each bid:

$$B \equiv \frac{C_{low}}{C} X + \frac{T}{T_{high}} (1 - X)$$

where

$C$  = Evaluated Bid Price

$C_{low}$  = the lowest of all Evaluated Bid Prices among responsive bids

$T$  = the total Technical Score awarded to the bid

$T_{high}$  = the Technical Score achieved by the bid that was scored highest among all responsive bids

$X$  = weight for the Price – **0.7**

# MC2 EVALUATION

**ITB 28.5 (f)** The Category Technical Scores will be combined in a weighted sum to form the total Technical Bid Score using the following formula:

$$T \equiv \sum_{j=1}^n S_j * W_j$$

where

$S_j$  = the Category Technical Score of category “j”

$W_j$  = the weight of category “j” as **specified in the BDS**

$n$  = the number of categories

and  $\sum_{j=1}^n W_j = 1$

# MC2 EVALUATION

No.	Category	Technical features	Weight (W <sub>i</sub> )
<b>Software Specifications</b>			
W1	C1. Cloud Computing - Technical Integration Requirements	C1.08, C1.09	2%
W2	C2. Cloud Computing Software Infrastructure – General Requirements	C2.13	2%
W3	C3. Cloud Computing Software Infrastructure – Virtualization Platform Requirements	C3.19, C3.46, C3.51	2%
W4	C4. Cloud Computing Software Infrastructure – Cloud Management Requirements	C4.11, C4.19, C4.37, C4.38, C4.40, C4.41	2%
W5	C5. Cloud Computing Software Infrastructure – Resource Management and Self-Service Requirements	C5.17, C5.24, C5.34-C5.37, C5.39, C5.41-C5.46, C5.48-C5.50, C5.53-C5.55	5%
W6	C6. Cloud Computing Software Infrastructure – Storage-as-a-Service Requirements	C6.15	3%
W7	C7. Cloud Computing Software Infrastructure – Metering and Billing Requirements	C7.19-C7.21	3%
W8	C8. Cloud Computing Software Infrastructure – Security Requirements	C8.08-C8.10, C8.22	3%
W9	C9. Cloud Computing Software Infrastructure – Site Recovery and Replication Requirements	C9.24	3%
W10	BA. Backup and Archiving Requirements	BA.15-BA.16, BA.19-BA.20, BA.22, BA.31-BA.43, BA.45-BA.46	10%

# MC2 EVALUATION

No.	Category	Technical features	Weight (Wj)
<b>Hardware Specifications</b>			
W11	H1. Hardware – General Requirements	n/a	0%
W12	H2. Hardware – Processor Requirements	H2.02-H2.03, H2.06-H2.07, H2.11, H2.13-H2.14	10%
W13	H3. Hardware – Network Requirements	H3.02, H3.04- H3.05, H3.08- H3.09, H3.13, H3.15- H3.16, H3.19- H3.20, H3.47	14%
W14	H4. Hardware – Storage Requirements	H4.02-H4.04, H4.09, H4.12-H4.13, H4.16-H4.18, H4.20, H4.23-H4.25, H4.31, H4.39, H4.46-H4.48	13%
W15	H5. Hardware – Tape Library Requirements	H5.04, H5.06, H5.08, H5.10, H5.14, H5.16, H5.18, H5.39, H5.41	3%
W16	H6. Hardware – Operational Management Platform Requirements	H6.02, H6.22, H6.29-H6.32, H6.45-H6.46	10%
W17	H7. Hardware – Other Requirements	n/a	0%
W18	DC. Datacenter – Datacenter Requirements	DC.08-DC.09, DC.13, DC.15, DC.18, DC.35-DC.36	10%
<b>Service Specifications</b>			
W19	I1. Implementation – Staff Qualifications, Project Management, Training and Documentation	I1.11-I1.14	3%
W20	I2. Implementation – Testing and Acceptance	I2.12	1%
W21	I3. Implementation – Warranty	I3.03	1%

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QUESTIONS AND ANSWERS



# THANK YOU!

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