













Fig. 1. Final generic i\* model

## 5 Conclusions

In this paper we have presented an approach to automate construction of *i\** SD based-CM, which reuses elements (actor and dependencies), included in the patterns presented in [4]. Elements in these patterns have been validated, and patterns have been extended with the results of 29 semi-industrial IS architectural design process, conducted in the last three years. All of these projects used the DHARMA method, which requires enterprise CM to be constructed as departing activity for a IS architectural design.

We have also proposed a method to systematize the identification of context actors and dependencies, and eventually automate the construction of *i\**-based CM. It is important to remark that the proposal is based in a significant amount of empirical evidence which makes it highly useful. We are currently finishing the construction of a tool to support the method and exploring the ontological representation of patterns in order to improve CM construction, by automatically recommending the elements to be included in them.

## References

1. The Open Group. *The Open Group Architecture Framework (TOGAF) version 9*. The Open Group, 2009
2. Carvallo, J.P. *Supporting Organizational Induction and Goals Alignment for COTS Components Selection by Means of i\**. ICCBSS 2006
3. Carvallo, J.P., Franch, X. *On the Use of i\* for Architecting Hybrid Systems: A Method and an Evaluation Report*. PoEM 2009.
4. Carvallo, J. P., & Franch, X. *Building Strategic Enterprise Context Models with i\*: A Pattern-Based Approach*. TEAR 2012.
5. Steinberg, M. *Enterprise Applications: A Conceptual Look at ERP, CRM, and SCM*. Hill Associates Inc., 2006.
6. <http://aplicaciones2.ecuadorencifras.gob.ec/dashboard2/pagina3.php>