8.1 Data and Forecasting in Humanitarian Logistics

Groupwork 1

Students:

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| You are a logistician for a humanitarian organization. You’re trying to reduce some of the uncertainty that comes with strategic and operational planning for a disaster response. For each of the below variables, assess how useful it would be to have an estimate or actual number; for instance, how important is it to know what items need to be delivered? (Scale: 1=not important, 5=most important) Then, speculate how easy it would be to determine a forecast for the variable (Scale: 1=very difficult, 5=very easy) |
| **Service** | **Usefulness** | **Ease to forecast** |
| How many families affected |  |  |
| What items need to be delivered |  |  |
| Type/frequency of disaster per region |  |  |
| Number and type of organizations responding |  |  |
| **Speed** | **Usefulness** | **Ease to forecast** |
| Declaration of emergency date |  |  |
| Establishment of requirements / Assessment time |  |  |
| Resource mobilization time |  |  |
| Internal sourcing time (picking, etc.) |  |  |
| Procurement timeProduction capacity / delivery time of suppliers |  |  |
| Delivery time of organization |  |  |
| * + Inventory handling (picking, packaging, etc.)
 |  |  |
| * + Customs time/procedures
 |  |  |
| * + Distance of relief items to families
 |  |  |
| * + Infrastructure condition
 |  |  |
| * + Transportation resources available
 |  |  |
| * + Funding available
 |  |  |
| **Cost** | **Usefulness** | **Ease to forecast** |
| Cost per item (fluctuating market price) |  |  |
| Cost per service (fluctuating market price): |  |  |
| Quantity of service |  |  |
| * Families affected
 |  |  |
| * + Nature of disaster
 |  |  |
| * Items required
 |  |  |
| * + Nature of disaster
 |  |  |
| * + Dimensions of items
 |  |  |
| * Distance of relief items to families
 |  |  |
| * Infrastructure condition
 |  |  |
| * + Nature of disaster
 |  |  |
| * Transportation resources available
 |  |  |