## Slicing in 5G networks

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## A slice simulator with MDP resolution

Last Call	Update
<ul> <li>Switch to mdptoolbox library</li> <li>Assuming: <ul> <li>histogram of arrivals (toy program: H_a = [0.5, 0.5])</li> <li>histogram of departures (toy prog.: H_d = [0.6, 0.4])</li> <li>limited server number (toy prog.: 1)</li> <li>limited queue size (toy prog.: 2)</li> </ul> </li> </ul>	<ul> <li>Taking account of lost jobs in the reward:         alpha * (C_j * j + E[L] * C_l) + (1 - alpha) * C_s * n E[L] - expected number of lost jobs</li> <li>First results (see attached zip archive)</li> </ul>
<ul> <li>Cost mapped in the reward: α k C_k + (1-α) n C_n         (k job, n server)         (toy prog:. assuming no costs for lost jobs)</li> </ul>	