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The CMS global pool, from a pilot-based to an heterogeneous mix of resources

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Nowadays computational resources come in a wide variety of forms from pilots running on sites, cloud resources and spare cycles on desktops, laptops and even phones through volunteer computing and our duty, as the Submission Infrastructure team at CMS, is to be able to use them all.
When it comes to Integrate these different models into a single pool of resources, different challenges arise. In this talk we will talk about some of these cases, and how we have faced them using the flexibility provided by HTCondor.

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