Cumulative versus monographic dissertation

General
- Any PhD thesis, whether written as a monograph or as a cumulative thesis comprising several peer reviewed papers, is being examined on the basis of its scientific merits. There is no difference in scientific quality per se between these two formats. The PhD rules and regulations treat them equally.
- The number of publications in cumulative dissertations is not an indicator of the scientific quality of the thesis. Therefore, the PhD rules do not specify a minimum number of peer reviewed publications that a cumulative PhD thesis must comprise. Individual supervisors might set benchmarks reg. the number of publications and their status (published, accepted, submitted) for their PhD students. However, these are not based on the Faculty’s PhD rules.

Benefits of a cumulative dissertation:

Future career
When it comes to job applications, peer-reviewed publications are often regard as superior when compared to monographic dissertation. This applies at least for the area of natural sciences. In social sciences it might not always be the case. With a cumulative dissertation, you demonstrate to a future employer that you know how to communicate and publish your work. You demonstrate competency to the outside world.

Accessibility and Visibility
If your audience is a scientific one, your work is more accessible and you reach a much greater level of dissemination than with a monograph.

Content and quality
In a cumulative dissertation you are pushed towards an efficient risk and time management. You should aim for at least 1 publication per year. Commonly the quality of the dissertation improves through the critique and feedback received from reviewers and editors in the peer-review process.

Examination
Examiners of a thesis will commonly assume that chapters of a thesis that have been published as peer-reviewed papers have already undergone a very critical examination and scrutiny.

In which cases may cumulative dissertations not be recommendable?
1. If the main readership of your dissertation does not read scientific journals.
2. If most of the results of your work are obtained only at a late stage of your candidature, e.g. in the 3rd year. Then it would very probably substantially delay finishing your thesis, if you wanted to get chapters still to publication or acceptance stage. Therefore, it is very important to consider a publication plan. If you cannot develop the majority of your results chapters to an accepted stage during the anticipated time for your PhD, then it may not be worthwhile to attempt writing a cumulative thesis.

What to do if your work is not suitable for the cumulative format?
If your work is not suitable for a cumulative dissertation, but you want to publish your work in scientific articles, you should structure your thesis so that individual chapters can be easily translated into papers later on.
**Duplication of publication**
If you publish your dissertation as a monograph and want to publish later also chapters of it as individual papers in journals, you enter a grey zone. It very much depends on your audience and the publisher of your monograph. Here you might have to seek permission to publish the same or similar content again. However, through the peer-review process it is quite likely that in the end your text to be published differs a lot from the original. If you want to be on the safe side: Submit the required minimum number of copies of your dissertation and publish the content later in journals.

**When to decide?**
You should decide at a very early stage if you want to go for a cumulative thesis or a monograph format. Discuss this very important issue with your supervisors. If you decide at late stage of your candidature to change the format from monograph to cumulative, this might cause a lot of additional work.

**Requirements of the PhD regulations (2008) for cumulative dissertations**
The regulation does not fix a certain number of publications. It just says "

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