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# Alternatives to local content requirements in resource-rich countries

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## ABSTRACT

This paper discusses whether and to what extent resource-rich developing countries should introduce local content policies, i.e. requirements to include local inputs in petroleum extraction activities of multinational corporations. We argue that local content needs to be seen as a public expenditure question, since local content requirements increase multinational costs, and hence reduce the taxes which can be extracted from these companies. This implies that there are opportunity costs in imposing local content requirements, since the forgone taxes can be used in others ways which could potentially do more to improve development prospects. Moreover, past experiences of resource-rich developing countries suggest that local content policies can exacerbate key problems of patronage and rent-seeking which resource rents generate, increasing the chance that the resource wealth will prevent rather than help development. These arguments suggest that an optimal local content policy in the context of flawed institutions is a more limited one than those typically pursued by developing countries with recently discovered petroleum reserves. Using qualitative data from Tanzania, a country with recent discoveries of substantial natural gas deposits, we analyze why local content tends to become such a central issue in debates and policy processes, despite its potentially problematic aspects.

## KEYWORDS

Local content; petroleum; oil; natural gas; Tanzania

## JEL CODES

D72; D73; O14; Q32

## 1. Introduction

The pattern is a familiar one: a country discovers petroleum reserves, and public debates and policy immediately turn to the question of how to promote local content, or the involvement of local businesses and employees and the use of local inputs, in the extraction of the resource. Tanzania is a case in point, where the discovery of some 50 trillion cubic feet of gas since 2010, predominantly in deep off-shore deposits, has led to the formulation and adoption of a local content policy by the government. To inform policy, academics and consultants provide advice on how best to promote local content, a prominent example in the case of Tanzania being Sutton's (2014) emphasis on creating a well-functioning local content unit. The policies and advice are all based on an intuitively appealing premise: the discovery of petroleum presents an opportunity for the country to increase employment and upgrade the skills of workers, and to improve productivity through transfers of technology from multinational corporations to local firms involved in extraction activities or in other parts of their supply chains. The case of other oil-producing countries such as Norway is often used to illustrate the promise of local content; since extraction began in the 1970s, Norway has succeeded in developing internationally competitive oil and oil supply industries.

The pattern is familiar in asking how to promote local content, but rarely question whether and to what extent local content in the petroleum sector should be actively promoted. The merits of promoting local content are more or less taken for granted. In this paper, we argue that the question of whether to actively promote local content should be given more emphasis in analyses of optimal policies in resource-rich developing countries. One reason for this is that the experience of Norway is not necessarily replicable, as the country's success in developing competitive petroleum sector firms has been based on a set of favourable pre-oil characteristics (a well-educated labour force, good institutions, and an existing and related industrial base), as well as on luck (the lack of well-developed deep-water extraction technology at the time Norwegian oil activities began, and being forced by international trade developments to abandon the more protectionist local content policies after an appropriate period of time) (Heum, 2008). Tanzania, or Ghana, or other developing countries which have recently discovered petroleum reserves do not have similar initial conditions, and are unlikely to be as lucky.

More fundamentally, an analysis that jumps straight to the question of how to promote local content in the petroleum sector tends to ignore two important insights. Firstly, an active local content policy is not costless, as much of the debate tends to assume. If multinational companies are required to use local inputs which are not competitive, and which they would otherwise not have chosen, this raises the costs for the multinationals. The taxes which the host country can extract from the multinational companies are therefore reduced. In principle, an alternative to local content requirements would be to have no such requirements, extract the maximum taxes consistent with keeping the multinational company in the country, and use these taxes for other development purposes. In other words, local content policy should be analyzed as a public expenditure question, since it reduces potential expenditures in other areas, rather than as an isolated sector management question. Moreover, the analysis should be explicitly comparative, comparing potential returns to local content to returns to other policies for industrialization and development. Secondly, experience from developing countries with a longer history of petroleum extraction, such as Angola or Nigeria, suggests that local content may not be an innocuous tool for industrialization. There is instead a real danger that these forms of policy may exacerbate mechanisms underlying the resource curse, providing the ruling elite with an additional means for exchanging favourable treatment for political support, and creating an additional arena for rent-seeking. In the context of a country with flawed institutions, alternative uses of the petroleum revenues may therefore prove less detrimental to development.

This paper provides a conceptual and theoretical analysis of whether a resource-rich developing country should emphasize local content policies, elucidating the above concerns and arguments. In doing so, we examine the implicit basis for the 'how-to' literature on local content (Barclay, 2004; Sutton, 2014), and argue that it is open to challenge. While some previous studies have been critical of local content policies from a political economy perspective (Ovadia, 2012; Hansen, Buur, Therkildsen, & Kjær, 2014), this paper adds to this literature by providing a structured, comprehensive treatment of the issues. There is an extensive theoretical literature on local content which primarily looks at the effect on market-seeking foreign direct investment (FDI) (Grossman, 1981; Belderbos & Sleuwaegen, 1997; Lahiri & Ono, 1998; Qiu & Tao, 2001); while we draw on and relate to this literature, our paper focuses on resource-seeking FDI. Finally, our analysis contains an implicit methodological critique of scientific case studies and consultancy reports on local content whose empirical approach tends to focus on interviews with agents in, related to, and with vested interests in, the petroleum sector. Since local content entails the use of scarce public funds with alternative uses outside the petroleum sector, views on optimal use of local content should be solicited also from outside the petroleum sector, and discourses which limit the issue to one of sector management need to be challenged.

The paper is structured as follows: Section 2 discusses the concept of local content and presents in detail the argument that local content entails forgoing taxes, discussing some possible alternative uses of these revenues. Section 3 analyzes local content within the existing scientific literature about the mechanisms behind the so-called resource curse. In Section 4, we relate the arguments from the preceding sections to the policy debate in Tanzania in an attempt to understand why local content,

despite its potentially problematic aspects, gets so much attention in these types of debates. Section 5 concludes.

## 2. Local content: framing the question

A simple definition of local content is the incidence of domestic inputs (capital, labour, intermediate products) in the various parts of a value chain. This definition encompasses earlier definitions of the term as ‘the share of employment – or of sales to the sector – locally supplied at each stage of [the value] chain’ (Tordo, Warner, Manzano, & Anouti, 2013, p. 2), the use of a certain proportion of domestic components or intermediate inputs in production (Grossman, 1981; Belderbos & Sleuwaegen, 1997; Qiu & Tao, 2001), or the inclusion of local companies in production (Vaaland, Soneye, & Owusu, 2012). While domestic inputs can refer to either inputs which are made in the host country, or made by entities owned by host country nationals, this is not an important distinction for the arguments made in this paper. The above definition of local content excludes activities of multinational companies unrelated to its production process, such as the provision of schools, health facilities or infrastructure to host communities, but this exclusion is not really important in terms of the arguments presented here.

Local content policy is then defined as government policies which aim to promote local content. In the literature, a lot of attention is given to (more or less binding and enforced) regulatory or contractual requirements for multinationals to include a certain proportion of local content, but local content policy can also refer to other ways of promoting the use of local inputs such as through economic incentives. Major objectives of local content policies have been to increase domestic employment in the sector (thus reducing unemployment or upgrading human capital), and facilitate transfers of technology through participation in production or through backwards and/or forward linkages. While the following discussion may be couched in the language of backward linkages, the arguments are also relevant for other modes of local content promotion.

Local content policy can be more or less active, from the minimal to the more intrusive in terms of market outcomes. An active local content policy is protectionist in promoting domestic firms or workers from whom the multinational company would otherwise not choose to source inputs. In other words, requirements to source some inputs from domestic producers increase the costs for multinationals. An important insight is that this reduces the profits of the multinational, and hence the taxes which the government can extract from the company. That local content requirements reduce potential taxes is not a particularly new insight; it is implicit in Lahiri and Ono’s (1998) theoretical analysis of local content. In their model, the profit function  $\pi^f$  of a multinational firm is captured by:

$$\pi^f = (p - c^f)x^f(1 - t) \quad (1)$$

where  $p$  is the price of their final good,  $c^f$  their (constant) marginal cost,  $x^f$  their level of production, and  $t$  the taxes the host economy imposes. If the host economy requires that a proportion  $\delta$  of inputs must be sourced locally, the cost to the multinational can be written as:

$$c^f = (1 - \delta)k^f + \delta k \quad (2)$$

where  $k^f$  is the marginal cost of foreign inputs and  $k$  the marginal cost of domestic inputs, with  $k > k^f$ , i.e. domestic inputs are more costly than imported ones, which is necessary for there to be a rationale for a local content requirement in the first place. The model further assumes that there is a minimum level of profits  $\bar{\pi}$ , below which a multinational will choose not to invest in the host economy, which we term the company’s reservation profits. From the host country’s point of view then, the optimal combination of local content requirements  $\delta$  and taxes  $t$  would make the company indifferent between investing and not investing in the country. Combining and rearranging Equations (1) and (2), this participation constraint can be written as:

$$(p - k^f - \delta(k - k^f))x^f(1 - t) = \bar{\pi} \quad (3)$$

Equation (3) shows that there is a trade-off for the host country between imposing local content requirements and extracting taxes from the company. The higher the local content requirement  $\delta$ , the greater is the added cost to the multinational  $\delta(k - k^f)$  and the lower the profits, which means that taxes  $t$  need to be lower to satisfy the participation constraint, i.e. to keep the multinational in the country. Formally, we can see this by taking the total differential of  $t$  with respect to  $\delta$ , given the constraint (3):

$$\frac{dt}{d\delta} = -\frac{\frac{\partial \pi}{\partial \delta}}{\frac{\partial \pi}{\partial t}} = -\frac{(k - k^f)x^f(1 - t)}{(p - k^f - \delta(k - k^f))x^f} < 0 \quad (4)$$

The negative sign indicates that as local content requirements go up, taxes must go down in order for the participation constraint to be satisfied. The reduction in taxes that local content requirements entail is also greater the more costly and inefficient are domestic inputs and producers, i.e. the larger is  $k - k^f$ .

There is a tendency in policy debates to think of the local content question as a pure sector management problem, as a means to improve outcomes within or directly related to the petroleum sector. The preceding argument and analysis show that this partial focus is problematic. Active local content policies have clear implications for the whole host economy, leading taxes to be foregone which could have been spent on other purposes. The question that should be asked is thus whether spending potential tax revenues on local content policies gives better prospects for industrialization, or more fundamentally, development in the country, compared to other uses of the tax revenues. In other words, the question of local content should be phrased as a public expenditure question, rather than a sector management problem. There are opportunity costs to local content policies which are not captured by a partial sector management perspective. In developing countries with scarce public funds, there are potentially a number of ways to spend tax revenues, and it is far from obvious that spending money on local content in the petroleum sector is the one most conducive to development. In fact, there are two major sets of arguments which should lead one to be sceptical of using scarce public resources on local content in this sector. One set of arguments revolves around the likely relative economic returns to local content in petroleum in a developing country context. The other set relates to the unappealing political economy dynamics which arise in resource-rich countries with flawed institutions. We discuss the first set of arguments here, and return to the second set in the next section.

In terms of economic returns, the merits of local content in the petroleum sector depends on how much it promotes the intermediate goals of industrialization or employment, or fundamental development goals such as poverty reduction, compared to other forms of government expenditure. There are alternative industrialization policies which can be pursued with the same revenues as would be forgone on local content, and there are also alternative development policies on which the revenues could be spent. In terms of industrialization, an alternative to promoting companies in the petroleum sector would be to promote other sectors: agriculture, different forms of manufacturing and possibly some service industries. The logic of local content follows the infant industry argument, where a limited period of protection is used to get domestic industry up to a level of productivity where it can be internationally competitive. In the context of a developing country with a scarcity of capital and skilled labour, abundant unskilled labour, and existing industries of relatively low technological complexity, however, it seems unlikely that a competitive advantage can be developed in a highly capital intensive sector of great technological complexity such as the petroleum sector. Other sectors that are more labour intensive and less technologically complex may be more suitable candidates for creating linkages and spillovers which have a potential for transfers of technology that the country can actually absorb. In principle, one could imagine using tax revenues from petroleum to support and build up these types of industries, rather than forgo the revenues to promote local content in the petroleum sector. Sector-specific support of this kind may not be unproblematic, however; experience shows that it is difficult for governments to pick winners (even in terms of sector), and there is a danger that these policies can be captured by certain influential industries, making them hard to revoke at a later time. Nevertheless, given the political economy dynamics created by petroleum resources and

discussed in the next section, it seems unlikely that the latter problems of capture and perpetuation of support would be any smaller for local content policies in this sector.

As an alternative to promoting specific industries, a government could spend the revenues in question to improve the business environment in the country more generally. This could be through a general lowering of taxes, or through investment in various forms of infrastructure (interpreted widely), or by advancing the human capital of the population through schooling or health services. These more general policies have the advantage of being less capturable by special interests. They may also be more conducive to diversification of the economy. It is a paradox that countries with substantial petroleum reserves tend to express concerns about a low level of diversification, while at the same time pursuing local content policies in the petroleum sector, which at best constitutes a very narrow way of diversifying an economy and does little to reduce challenges of resource dependence and volatility. More general approaches to promoting industrialization are likely to be more conducive to diversification, which in a resource-rich economy may also be important for political reasons, as will be discussed in the following section.

Similar arguments are likely to apply if we focus on employment effects of local content in petroleum. The petroleum sector typically does not create that many jobs. Norway may again constitute the most optimistic scenario with 3.5% of the workforce employed in petroleum-related supply and service providers, but this is in a country whose industry has been successful in expanding its activities to other countries, and is not only related to extraction of the country's own oil reserves (Heum, 2008). Given the nature of the petroleum sector, one can also ask whether the jobs created benefit those who need them the most. Promoting other types of industries may hence be more effective in generating employment.

The taxes forgone through local content can of course also be used for other policies than those focused on industrialization. For developing countries with a high level of poverty, there are immediate needs which can be addressed through other interventions. And while health and education investments are important for productivity, they are also important for other reasons. It seems likely that local content policies in the petroleum sector would have a fairly narrow impact in terms of improving the livelihood of the population, compared to more basic and widespread policy interventions of these kinds. If successful in building up competitive domestic industries, this could of course result in more taxes and public revenues down the line, but this just brings us back to the observation that success through local content in the petroleum sector appears less likely than through promoting other forms of industrialization.

The point of this discussion is not to suggest that there are specific alternative uses of taxes forgone by local content which every resource-rich developing country should adopt; it would all depend on context, capacities and opportunities. What is important is that active local content policies are not costless; they reduce potential taxes which could be used for other purposes. Taking a public expenditure focus on the use of local content is therefore vital, and if we do so, it seems unlikely that promoting local content in the petroleum sector is the best use of scarce resources in a developing country context. This conclusion is reinforced if we take into account insights from the literature on the impact of natural resources, as we shall see in the next section.

### **3. Local content in petroleum: the resource curse**

So far, we have treated the petroleum sector as any sector a country can choose to promote, and discussed the merits of local content policies in the sector based on its basic economic characteristics, such as being capital intensive and technologically complex, characteristics it also shares with other industries. However, there are also some more specific aspects of the sector which are important to include in the discussion of local content. Following seminal studies by Auty (1993), Sachs and Warner (1995) and Karl (1997), there is by now a substantial literature documenting how being plentiful in natural resources like petroleum tends to impair rather than improve development prospects of countries with certain institutional weaknesses, a phenomenon commonly referred to as the resource



course or the paradox of plenty.<sup>1</sup> Detailed reviews of this literature are provided in Kolstad and Wiig (2009), Van der Ploeg (2011), Frankel (2012) and Van der Ploeg and Poelhekke (*in press*). Three main mechanisms have been suggested as explanations for the detrimental effect of natural resources: (i) Dutch disease effects; (ii) patronage or the use of public funds to shore up political power; and (iii) rent-seeking. While the first of these mechanisms focuses on economic effects of natural resources, the other two emphasize political economy or institutional factors in explaining why some countries suffer a resource curse. In what follows, we discuss local content policies in light of these three main mechanisms underlying the resource curse.

### 3.1. Dutch disease

The Dutch disease essentially means that a highly profitable natural resource sector tends to increase the price of domestic inputs and/or lead to currency appreciation, which reduces competitiveness and production of non-resource export sectors. Moreover, if learning and productivity increases are higher in these other sectors, the shift towards the resource sector reduces the economy's long-term growth potential (Van Wijnbergen, 1984). Empirically, the assumption of superior learning effects in non-resource sectors (in particular manufacturing) are largely unproven (Sala-i-Martin & Subramanian, 2013). There is nevertheless a possibility that this mechanism interlinks with the institutional explanations of the resource curse. Where democratic accountability is low, natural resources may induce a government to invest in manufacturing which has a high political but low economic return (white elephants, cf. Robinson and Torvik (2005)), or to resist technological improvements which can weaken the government's power (Acemoglu & Robinson, 2006). This means that for countries with weak institutions, there is a clear possibility of long-term productivity losses in non-resource sectors.

If the Dutch disease literature is correct in suggesting that productivity increases are lower in the petroleum sector than in manufacturing sectors, this would strengthen the arguments against local content in the petroleum sector made in the preceding section. However, even if there were no general difference between learning effects in resource sectors and other tradeables, this does not mean that for any individual country there cannot be differences. Again, it seems unlikely that most resource-rich developing countries are well positioned to reap superior productivity gains from a capital-intensive, technologically complex petroleum industry, compared to other sectors. And as suggested by the possible interaction of economic and institutional factors, these arguments against local content may be especially weighty in countries with weak institutions, where political expediency may override economic returns in terms of shaping investment policies.

### 3.2. Patronage

The political history of petroleum-rich African countries is not particularly pretty. The two longest-serving presidents in the region are President Obiang of Equatorial Guinea and President Dos Santos of Angola, both of whom have held power since 1979. It is not the case that these rulers have stayed in office this long because of their popularity; rather, access to money from petroleum resources has provided them with the means to shore up their political power, securing their continued access to oil rents. While these two countries may be extreme in this respect, Andersen and Aslaksen (2013) show that the link between petroleum wealth and duration in political office is a more general phenomenon. For countries with low or intermediate levels of democracy, petroleum wealth significantly increases political survival, i.e. the time spent in office before being replaced. The ways in which this occurs may vary, but can include patronage in the form of spending public funds in ways which ensure the ruling elite has the necessary support to remain in power, or outright political repression.

Patronage retards economic development in a country through a misallocation of physical and human capital. It can take many different forms: allocation of land or other assets or exclusive rights to serve certain markets to powerful individuals whom the regime wants to keep on their side; construction of infrastructure or productive facilities which are politically popular and economically

unprofitable (white elephants); or provision of jobs and positions for political supporters in the public sector. In all these cases, the typical problem is that allocation decisions are made based on their political payoff, their contribution to keeping the ruling elite in power, rather than their economic rationale. The resulting misallocation of a society's resources leads to lower economic development, and thus provides one explanation of the resource curse. A formal theoretical treatment of patronage is provided by Robinson, Torvik, and Verdier (2006), showing that patronage is likely to be more pervasive and more damaging in countries with weak institutions of democratic accountability.

It seems likely that local content may exacerbate problems of patronage in countries with weak institutions, since it represents an additional channel through which a ruling elite can secure political support by providing jobs and contracts to its backers. Moreover, it is also a channel which is relatively non-transparent, often both as a result of deliberate elite choices and the relative complexity of the sector. In Angola, Ovadia (2012) notes that laws relating to local content have been kept deliberately unclear; that the relatively opaque national oil company Sonangol has considerable power in influencing who gets the relevant contracts; that it is believed some local companies have received contracts on dubious grounds; and that it is sometimes even unclear who owns the companies in question. He argues that local content provides 'the state with a new method of rewarding those close to the president with new and profitable business opportunities' (*ibid.*, p. 396), facilitating new forms of elite accumulation and further concentrating elite power. Relatedly, Wiig and Kolstad (2010) in essence suggest that local content provides the government and multinational petroleum companies with a way to keep part of the oil rents off the books, making collusion in appropriating them easier.

What makes the underlying dysfunctions which cause a resource curse difficult to address is that those with the power to address the institutional problems benefit from the dysfunctions. The findings of the above studies are certainly in line with this view: in an institutionally flawed context, local content seems to be used in a way which increases the power of the ruling elites, cementing the political structure. The elite have little incentive to introduce institutional reform, and have the resources to prevent attempts by other social groups to pursue such an agenda, through co-optation, marginalization and/or repression. Empirical studies also confirm the negative downward pressure of resource rents on democracy (Ross, 2001; Aslaksen, 2010; Tsui, 2011; Andersen & Ross, 2013). In a more indirect sense, channelling oil revenues into local content in the petroleum sector may be a way for a regime to ensure that a country has the concentrated industrial structure which will prevent other social groups from attaining the economic and hence political power to challenge the elite (Kolstad & Wiig, 2014). Local content may serve to further concentrate a petroleum-rich economy in the resources sector, and hence undermine a favourable evolution of its economy and institutions. In other words, in this perspective, local content can be a means not just for the elite to keep power but to further entrench their power, in order to appropriate more of the resource rents. There is thus reason for caution in promoting local content in resource-rich developing countries: it may allow elites to accumulate additional power, making improved development outcomes for the population unlikely.

### 3.3. Rent-seeking

In an economy with large petroleum incomes, educated and talented people see positions in or related to the petroleum sector as particularly attractive. One therefore typically sees graduates seeking out positions in private companies in the sector, or in the oil bureaucracy. A problem with this flow of skilled and talented people to this sector is that they are to a certain extent competing for a pie of a fixed size – that of the resource incomes or rents – rather than pursuing other types of activities which could increase the size of the pie, such as entrepreneurship in other sectors. This form of behaviour can be classified as rent-seeking, defined as the wasteful competition for a given economic opportunity. The problem with this phenomenon is that it entails an inefficient allocation of labour and talent: in comparing the payoffs of rent-seeking versus productive activities, each individual does not consider how their decision to become a rent-seeker reduces the rents available to everyone else. There is thus an inefficiently high allocation of labour to rent-seeking activities related to petroleum,



and a correspondingly low allocation in productive activities, which leads to waste in terms of the total income of the society.

Rent-seeking in the context of natural resources is formally modelled by Mehlum, Moene, and Torvik (2006). In their model, entrepreneurs compare the returns to rent-seeking and to productive activities when deciding which of the two to engage in. The idea behind local content is that over time it will increase the productivity and hence returns to productive activities. In the model, we can understand this as reducing the marginal costs from modern production, reducing the number of rent-seekers in equilibrium, and increasing total income. However, another possible effect of local content requirements in petroleum is that they increase the scope for rent-seeking. In terms of the model, introducing local content requirements is akin to making institutions more grabber-friendly, leading to less productive activity and a reduction in total income. Which of these two effects dominate depends on the relative effect of local content on productivity and appropriability of the resource rents.

Even if the productive effect of local content in the petroleum sector should prove to dominate the rent-seeking effect, this is not sufficient to conclude that local content in petroleum is a good policy. As discussed in Section 2, the alternative to local content is to levy higher taxes from multinational petroleum corporations and use these tax revenues to promote other specific industries, business in general, or other development policies. Similar to local content in petroleum, policies to support specific other industries may also invite rent-seeking, and have the potential to improve productivity of the industry in question. Assessing whether to use scarce petroleum revenues on the petroleum sector or on other sectors then comes down to which sector has the most favourable productivity effect net of rent-seeking. As discussed earlier, it seems likely that a resource-rich developing country can benefit more in terms of productivity by using resource revenues to promote other sectors than petroleum. Given the high appropriability of resource rents compared to rents in other sectors, it also seems likely that this works against local content in the petroleum industry. The net effect therefore seems unlikely to favour local content in petroleum. Moreover, general policies to promote industrialization across industries, such as reduction in the tax level or investment in more general forms of infrastructure, are likely to be less capturable by special interests and to an even lesser extent produce rent-seeking. In a rent-seeking perspective, local content in petroleum hence seems unlikely to produce more favourable outcomes in terms of industrialization and increased development than alternative uses of resource revenues.

The point about the stickiness of institutions discussed in the previous section also applies to the issue of rent-seeking. If the effect of local content is predominantly to facilitate rent-seeking, the increased specialization of a substantial part of talented entrepreneurs in rent-seeking may over time give them a vested interest in keeping the current system in place, and resist institutional reforms which may undermine their access to the resource rents, even if reform would improve the overall development level of the economy. Any increases in rent-seeking which occur with local content may thus be hard to reverse, reducing long-term development prospects.

#### **4. Dynamics of local content debates: the case of Tanzania**

The attention that local content in the petroleum sector tends to receive poses something of a puzzle, given the arguments presented above. Support for local content provisions in developing countries with recently discovered petroleum reserves seems disproportional to the likely benefits thereof, sometimes even among organizations and individuals likely to benefit more from alternative uses of the petroleum revenue and in a position to see the pitfalls of these types of policies. To better understand the dynamics of public debates and policy processes, we conducted a case study of Tanzania, a country where recent discoveries of large gas deposits have generated considerable attention on local participation in the value chain. While there is a long history of petroleum exploration in Tanzania, and smaller previous discoveries of gas at Songo Songo and Mnazi Bay have been under extraction for a decade, the recent deep-water discoveries have increased known reserves several times over and ramped up expectations for local benefits from their extraction. Identified gas reserves are currently at around 55

trillion cubic feet, which in the calculations of the IMF (2014) will contribute 3–6 billion USD in annual government revenues if and when the fields start producing in the early 2020s.<sup>2</sup> If recent decreases in petroleum prices prove permanent these sums may be reduced, but the predicted revenues will still be substantial, compared for instance with net aid inflows of 3.4 billion USD in 2013. In the absence of further discoveries, however, the petroleum sector will not become as dominant in Tanzania as in heavily resource-dependent countries such as Angola or Nigeria. Petroleum revenues of 3 billion USD would constitute about 6% of Tanzania's GDP in 2014, and 30% of its exports.

Stated expectations of what the gas discoveries will mean for the Tanzanian economy have been high. The government's Natural Gas Policy of 2013 expresses an expectation that they will 'contribute significantly towards the acceleration of growth and socio-economic transformation' and help the country become a middle-income country by 2025 (Government of Tanzania, 2013; p. x). The expressed intention of the policy is that the 'natural gas... belongs to the people of the United Republic of Tanzania, and must be managed in a way that benefits the entire Tanzanian society' (*ibid.*, p. 4). As one way of attaining this objective, the government drafted a Local Content Policy in 2014, provisions of which were incorporated into the Petroleum Act of 2015. The draft Local Content Policy is clearly ambitious in its scope, stating that 'Tanzanians must be engaged in the entire value chain' (Government of Tanzania, 2014, p. 13), and aiming for a 'maximum engagement of local content and local participation' in the industry (*ibid.*, p. 33). Expectations among the Tanzanian population have been correspondingly elevated: a recent poll suggests that 17% of respondents expect to be directly employed in the petroleum sector, a clearly unrealistically high proportion (Ambroz & Mushi, 2015).

The position of the Tanzanian government as expressed in the draft Local Content Policy is uncritical of local content, sees local participation as exclusively beneficial, and does not recognize trade-offs with other uses of the natural resource revenues. The draft policy aims to advance the participation of local workers and firms, with an objective of upgrading skills and attaining transfers of technology, and addresses upstream, midstream and downstream segments of the value chain. The policy document implicitly underscores the view that the local content provisions will be costly, granting Tanzanian-owned firms an unspecified margin of price preference over foreign suppliers, prescribing at least 10% participation of Tanzanian goods and services, and opening up for introducing financial incentives for multinational and local companies in promoting local content. The country's Petroleum Act of 2015 appears to incorporate similar stipulations, with obligations for licence holders, contractors and subcontractors to give preference to local products and services, or for goods and services unavailable locally to be supplied by companies in joint venture with a local company (Government of Tanzania, 2015, p. 108).

Positions of parties with vested interests related to local content in the petroleum sector have tended to follow familiar lines also seen in other countries. Local businesses in a position to benefit from local content policies have been some of the strongest proponents of extensive local content provisions. Spearheaded by the Tanzania Private Sector Foundation (TPSF), this vocal group of business representatives has demanded that locals be included at all levels of investment and production. This group has also argued for the need to have a clear definition of what counts as being local; in their view 'local' should be synonymous with 'native' rather than meaning merely residing in Tanzania. Multinational petroleum companies, on the other hand, have tended to oppose strict government requirements for local content, citing examples from other countries of how this has been unsuccessful and typically leads to evasive activities, with unproductive shell companies and nominal hiring of locals to limited purpose. These companies are more in favour of a voluntary approach to local content, seeing this as an important part of corporate social responsibility (CSR) activities needed to retain a social licence to operate in the host economy. It is difficult to see this as little other than a broader corporate strategy to capture the CSR agenda, defining it as exclusively consisting of voluntary corporate activities and denying any role for regulation. Given how ineffective CSR activities of extractive companies have seemed at promoting development in other resource-rich countries (Frynas, 2005), it is also puzzling why these forms of activities should yield more of a licence to operate than paying more to the host economy in corporate taxes. Based on experiences from other resource-rich developing countries

(Wiig & Kolstad, 2010), the focus on voluntary local content policies may in the end not be driven so much by securing a social licence to operate, as by securing a licence to influence those with the power to award petroleum licences and contracts.

The positions of government officials, local businesses and multinational petroleum companies as (at least selectively) favourable towards local content can be made sense of given their interests and the theories presented earlier. What is more problematic is that the voices of these groups tend to be over-represented in debates on local content, as well as in consultancy work and research on the topic. The centrality of government and industry players in these debates means that they tend to become locked in sector management mode, focusing on questions of how to promote local content and eschewing more fundamental questions of how best to make use of scarce petroleum revenues, and whether and to what extent local content is a good use of funds compared to alternative uses. This may mean that groups who would be potentially critical or who would benefit more from other types of policies have little choice but to enter the debate on the terms which have been set for them. From the arguments presented in this paper, there is a clear need to ask more fundamental questions about local content. Since the use of scarce petroleum revenues is a question which affects all citizens of a resource-rich country, it is necessary to pay increased attention to the views and opinions of those without vested interests in the sector. In other words, the debate needs to be repositioned, and views of government officials and industry balanced with those of groups with other interests and objectives.

In an effort to do so, and to better understand the emphasis local content has received in policy debates in Tanzania, we performed interviews with a set of informants purposely selected potentially to provide a contrast to the dominant views in the debate. We do not in any way claim these informants to be representative of the views of the Tanzanian population, but we aim to complement research which has so far put great emphasis on the views and discourse of government and industry. In other words, if there is a bias in our selection of informants, we attempt to err on the side of providing balance in the wider debate on local content. Our interviews had a semi-structured format and were conducted in September 2015. We interviewed 12 informants from a wide variety of backgrounds, including representatives of NGOs, academics, advisors, consultants, retired senior civil servants and managers of businesses unrelated to the petroleum sector. The informants were identified based on their media profiles and previous in-depth knowledge of local content and industrialization debates in Tanzania. We do not name the informants since anonymity was requested by some of them. The questions focused on the informants' views on the effects (favourable and unfavourable) of local content on the Tanzanian economy, and on their understanding of why local content has received so much attention following the discovery of off-shore gas deposits.

Our informants differed in their overall assessment of local content. Admittedly, how critical informants were tended to vary with their current level of connectedness with the political system in general and with organizations shaping and benefitting from local content policies. One interpretation is that those less connected to the system voiced views more independent and less influenced by personal incentives and gain. Another possibility is that the less connected tend to become more critical as a result of being excluded from key debates and decisions. However, practically all our informants saw problematic aspects and potential pitfalls in an active local content policy, expressing concerns which mirror the arguments presented in the preceding sections. The lack of capacity of local firms to participate in and provide products of sufficient quality to a complex petroleum industry was widely noted. Several of our informants pointed out the costs involved in this, and expressed doubts that it would result in a local industry which would become internationally competitive. As one of our informants exclaimed: 'Local content is nice for feel-good, but it is really going to result in transformative processes?'<sup>3</sup> There was a widespread concern that in the absence of local supply capacity, local content requirements would result in evasive activities, with local front companies being used and imported goods passed off as local.

Our informants also raised concerns about local content exacerbating problems of patronage, rent-seeking and elite capture of the benefits from petroleum. One informant stated bluntly that 'everyone's excited about gas, but all the laws that have been passed will not benefit Tanzanians, only cronies,'

and argued that 'local content will benefit the sons and daughters of government officials'.<sup>4</sup> There was a perception that local content would be prone to rent-seeking, and even more so than with government interventions in other sectors because of the large rents involved in the petroleum sector. There was a general realization, even among those informants with an overall favourable view of local content, that the political and economic elite would benefit disproportionately from local content policies. As one informant positively inclined towards local content put it: 'don't expect miracles in Tanzania, that this won't be captured'.<sup>5</sup> Other informants predicted that shell companies in joint ventures 'would be owned by politicians',<sup>6</sup> and opined that local content 'provides those connected with a cheap and easy way to be part of the gravy train'.<sup>7</sup> Some of our respondents also suggested that local content policies tend to improve the bargaining position of multinational petroleum companies; as one of them put it: 'negotiating over local content does not put you at any advantage', and 'local content is a concept for demand and complaint' which introduces discord in the population over who gets the benefits.<sup>8</sup>

With our selection of informants, it is not too surprising that these critical points towards local content came up in the interviews. The informants nevertheless divided, if not neatly, into several different positions in terms of their overall view of the desirability of an active local content policy. A first set of informants saw local content as detrimental to development in the context of Tanzanian institutions, arguing that 'local content without oversight gives nothing'<sup>9</sup> and would only lead to capture and corruption, and concluding that the government should instead concentrate on collecting royalties and taxes, improving governance and spending on social purposes. A second set viewed local content debates and processes as a distraction from more important matters. In the words of one informant, 'local content is a popular way of answering a complicated question' of how to best use revenues from natural resources, and in the end 'local content, the supply chain, is nothing compared to the wealth'.<sup>10</sup> The focus should instead be on making sure that the revenues are well spent, and that there is transparency and accountability in government spending decisions.

A third set of informants can be characterized as selectively or conditionally favourable to local content policies, provided these focus on forms of local content less vulnerable to evasion or on developing more generalized skills and capacities which would also be useful outside the petroleum sector. When asked about the chance that the local content provisions could be shaped in this way given the interests of those with the power to influence the policies, however, answers were less than convincing. A related view, and with similar challenges, advocates a gradual expansion of local content subject to locals gaining the necessary technical and related skills to enable them to participate in the sector. This would entail a smaller local content focus and bigger tax revenue emphasis at initial stages of gas extraction activities; in the words of one informant 'the government should focus on maximizing tax revenues from the natural gas resources while building local capacities for future participation in the sector'.<sup>11</sup> While this view in a sense acknowledges a trade-off between local content requirements and tax revenues, it replaces local content requirements with government support for capacity expansion in supplying the petroleum sector, which also needs justification in comparison to other uses of tax revenues in terms of productivity enhancement and vulnerability to capture.

A fourth and final set of informants saw local content policies as favourable, at least in a second-best sense: given the general lack of accountability of the government in spending tax revenues, local content provides an imperfect way of realizing at least some good outcomes from petroleum activities. These informants did not, however, give a good answer to the question of why an unaccountable government would be more accountable in the choices made in terms of local content, or why local content should be less capturable than alternative government uses of the resource revenues. Those of our respondents most strongly in favour of local content requirements were also relatively unconcerned about issues of elite capture, with one of our respondents asking 'why should it be a problem when a few profit', after dismissing arguments about disproportionate elite benefits as 'nonsense born out of a Communist mentality'.<sup>12</sup> Interestingly, these types of views were voiced most strongly by our business informants, even though we had taken care to pick informants without direct interests in the petroleum sector. At least two interpretations of their views are possible: one is that these informants are staunch libertarians in the sense of being unconcerned about the distribution of welfare (but paradoxically in favour of

strong state intervention in order to secure elite access to resource rents); another is that they reflect the self-interests of business owners with their fingers in more pies than can be readily identified, or with greater interconnections to other parts of the economic elite. Some of our other informants leaned towards the latter view and stressed the power wealthy business people have in influencing policy, suggesting among other things that they were influential in removing from office a former Minister of Energy and Minerals who was critical of local firms' technical and financial capabilities to participate in the petroleum sector. In our interviews, the power of some of these wealthy individuals was palpable and explicit, as one wealthy business owner put it: 'if the current government cannot allow us in then the only option in this election year is to remove it and let someone else who understands us take over'.<sup>13</sup> Inadvertently, our interviews may in this way have come to illustrate some of the more dysfunctional political effects of natural resource rents.

We do not argue that the views of our informants represent the full range of views on local content, nor do they provide evidence that local content will lead to specific outcomes. The selection of informants and the qualitative approach used do not provide a basis for drawing such conclusions. What our qualitative data do underscore, though, is that the fundamental challenges related to local content are well known and recognized among informed parties in Tanzania, and that there are voices which question the very foundation for local content policies that do not fit well into existing policy discourses on how to promote local content. Our informants are naturally too well positioned and highly educated to be seen as representative of Tanzanian citizens generally. However, while it is difficult to know whether citizens see the trade-off between local content and other uses of petroleum revenues, there are data to suggest that ordinary Tanzanians are also concerned about elite capture in relation to gas extraction. In the 2015 poll presented in Ambroz and Mushi's (2015) study, 55% of respondents believed that people in government and the rich will be the ones who will benefit most from the recent gas discoveries. Relatedly, Kinyondo and Lange (2015) present a poll on the operations of mining companies in Tanzania, suggesting that a large majority prefer local community development activities over local content, with one reason for the preference being the corruption local content entails. In view of these questions and concerns, it is puzzling that debates and processes of local content have not been more critical of local content, with more attempts to shift the debate to addressing fundamental questions of whether local content is a good use of resource revenues.

We posed this puzzle to our informants. Fundamentally, the more critical informants stated clearly that what drives the emphasis on local content in policy processes are the interests of the political and economic elite. Their view is that politicians attempt to capture the rents from the sector and are heavily influenced by local businesses and business associations whose members finance political campaigns. On the question of why many ordinary Tanzanians also seem to be supportive of efforts to increase local content even though very few of them are likely to benefit, one possibility is that the political and economic elite have managed to inflate perceived probabilities of ordinary people getting a job in or related to the petroleum sector. However, our interviews suggested an alternative and potentially more important mechanism at work here. Several of our informants stressed that a nationalistic argument of ownership underlies much of the discussions of local content. A government favourable towards local content is tapping into resource-ownership sentiments in the population, presenting local content as claiming ownership to the resource, or 'not selling the country' to foreigners. In the words of one informant, rents can be accessed by 'telling stories to the population', but in the end the benefits of local content will be 'very private'.<sup>14</sup>

In sum, our interviews show that many of the concerns raised about active local content policies have some resonance among informed individuals in Tanzania. In addition, they reveal some important challenges in attempting to shift the local content debate towards broader and more fundamental issues of how petroleum revenues can best be used. Understanding the underlying interests shaping debates and policy processes and the strategies used to advance these interests are clearly important in this respect. While a strategy of inflating people's expectations for jobs and direct benefit flows from petroleum activities may create support for an active local content policy, support on this basis will be short-term and will wither as the limited employment and narrow distribution of benefits from



petroleum activities become apparent. However, our study suggests that debunking expectations may not be sufficient to change people's views of local content policies. If national identity and nationalistic sentiments of ownership are perceived as important enough, local content may receive support even from people who would benefit more from other uses of resource revenues. It is probably also no coincidence that plays on national identity are seen in the local content discussions and policies of other resource-rich countries; for instance, the term used for local content in Angola is *Angolanização*. If our informants are correct, then in order to change perspectives from one of sector management to one of public expenditure, these may be the kinds of sentiments which need to be targeted even more than people's over-inflated expectations. While it is possible to present the extraction of higher taxes from multinational companies as a source of national pride, the tangible nature of local content is perhaps more amenable to these forms of argument. Given the concerns raised, repositioning the debate is nevertheless important to ensure that petroleum revenues are used in the best possible way, and to avoid the prediction one of our informants made that '10 years down the road, we will still be poor, still not have schools'.<sup>15</sup> Moreover, it would be even more troubling if local content policies help concentrate power further in the hands of an elite, reducing accountability to an extent where it matters little what people think of its policies and actions.

## 5. Concluding remarks

The alternative to an active local content policy in the petroleum sector is to tax the multinational petroleum companies harder, and use the taxes to promote industrialization and development in other ways. An active local content policy entails the use of scarce resource revenues which have alternative uses, and should thus be viewed as a public expenditure question rather than a limited sector management issue. Given the capital intensity and technological complexity of the petroleum sector, it seems unlikely that using the resource revenues to build a local supply industry gives better value for money in resource-rich developing countries than using the revenues to promote other types of industries, to improve business conditions generally, or to promote development such as through investments in health or education. Moreover, the potential local content has to exacerbate the negative effects of natural resource rents in developing countries with flawed institutions, providing added avenues for patronage and another arena for rent-seeking, generates important reasons for caution, particularly since these types of effects tend to entrench elite power and institutional dysfunctions further. The implication of these insights is that the optimal local content policy of resource-rich developing countries is likely to be much more minimal than those typically pursued in developing countries with recently discovered petroleum reserves, such as Tanzania and Ghana. It is important to note that this does not necessarily mean no local participation whatsoever as some local inputs are likely to be used anyway, but it questions what place should be given to an active local content policy which seeks to expand local involvement in the industry at the expense of other, better ways of spending the resource revenues.

## Notes

1. For dissenting views on the resource curse, see Brunnschweiler and Bulte (2008), Alexeev and Conrad (2009) and Haber and Menaldo (2011).
2. At the time of this paper's writing, final investment decisions in the four off-shore blocks granted to Ophir/British Gas and to Station/ExxonMobil have not been made.
3. Informant A, personal communication, 16 September 2015. To preserve the anonymity of our respondents, we do not include their names, the locations in which they were interviewed, or their specific professions.
4. Informant B, personal communication, 14 September 2015.
5. Informant C, personal communication, 14 September 2015.
6. Informant D, personal communication, 16 September 2015.
7. Informant A, personal communication, 16 September 2015.
8. Informant E, personal communication, 15 September 2015.
9. Informant B, personal communication, 14 September 2015.



10. Informant F, personal communication, 16 September 2015.
11. Informant G, personal communication, 23 September 2015.
12. Informant H, personal communication, 25 September 2015.
13. Informant H, personal communication, 25 September 2015.
14. Informant A, personal communication, 16 September 2015.
15. Informant B, personal communication, 14 September 2015.

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